




Started	Wed Jul 05 2023 05:29:39 GMT+0000 (Coordinated Universal Time)
Finished	Wed Jul 05 2023 07:48:16 GMT+0000 (Coordinated Universal Time)
Mode	Deep
Client Tool	Remythx
Main Source File	ElephantNFT_flattened.sol

DETECTED VULNERABILITIES

 HIGH	 MEDIUM	 LOW
0	0	23

ISSUES

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
57 |  
58 | // multiply by 4/3 rounded up  
59 | uint256 encodedLen = 4 * (data.length + 2) / 3;  
60 |  
61 | // add some extra buffer at the end required for the writing
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
57 |  
58 | // multiply by 4/3 rounded up  
59 | uint256 encodedLen = 4 * (data.length + 2) / 3;  
60 |  
61 | // add some extra buffer at the end required for the writing
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
57 |
58 | // multiply by 4/3 rounded up
59 | uint256 encodedLen = 4 * ((data.length + 2) / 3);
60 |
61 | // add some extra buffer at the end required for the writing
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
60 |
61 | // add some extra buffer at the end required for the writing
62 | string memory result = new string(encodedLen + 32);
63 |
64 | assembly {
```

UNKNOWN Arithmetic operation "%" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
107 |
108 | if (data.length == 0) return new bytes(0);
109 | require(data.length % 4 == 0, "invalid base64 decoder input");
110 |
111 | // load the table into memory
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
113 |
114 | // every 4 characters represent 3 bytes
115 | uint256 decodedLen = data.length / 4 * 3;
116 |
117 | // add some extra buffer at the end required for the writing
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
113 |
114 | // every 4 characters represent 3 bytes
115 | uint256 decodedLen = (data.length / 4) * 3;
116 |
117 | // add some extra buffer at the end required for the writing
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
116 |
117 | // add some extra buffer at the end required for the writing
118 | bytes memory result = new bytes(decodedLen + 32);
119 |
120 | assembly {
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
186 | if (x >= 0x100000000000000000000000000000000) {  
187 |   x >>= 128;  
188 |   r += 128;  
189 | }  
190 | if (x >= 0x100000000000000000000000000000000) {
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
190 | if (x >= 0x100000000000000000000000000000000) {  
191 |   x >>= 64;  
192 |   r += 64;  
193 | }  
194 | if (x >= 0x100000000000000000000000000000000) {
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
194 | if (x >= 0x100000000000000000000000000000000) {  
195 |   x >>= 32;  
196 |   r += 32;  
197 | }  
198 | if (x >= 0x100000000000000000000000000000000) {
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
198 | if (x >= 0x10000) {  
199 |   x >>= 16;  
200 |   r += 16;  
201 | }  
202 | if (x >= 0x100) {
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
202 | if (x >= 0x100) {  
203 |   x >>= 8;  
204 |   r += 8;  
205 | }  
206 | if (x >= 0x10) {
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
206 | if (x >= 0x10) {  
207 |   x >>= 4;  
208 |   r += 4;  
209 | }  
210 | if (x >= 0x4) {
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
210 | if (x >= 0x4) {  
211 |     x >>= 2;  
212 |     r += 2;  
213 | }  
214 | if (x >= 0x2) r += 1;
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
212 |     r += 2;  
213 | }  
214 | if (x >= 0x2) r += 1;  
215 | }
```

UNKNOWN Arithmetic operation "-=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
226 |     r = 255;  
227 |     if (x & type(uint128).max > 0) {  
228 |         r -= 128;  
229 |     } else {  
230 |         x >>= 128;
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
231 | }
232 | if (x & type(uint64).max > 0) {
233 |     r -= 64;
234 | } else {
235 |     x >>= 64;
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
236 | }
237 | if (x & type(uint32).max > 0) {
238 |     r -= 32;
239 | } else {
240 |     x >>= 32;
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
241 | }
242 | if (x & type(uint16).max > 0) {
243 |     r -= 16;
244 | } else {
245 |     x >>= 16;
```

UNKNOWN Arithmetic operation "--" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
246 | }  
247 | if (x & type(uint8).max > 0) {  
248 |   r -= 8;  
249 | } else {  
250 |   x >>= 8;
```

UNKNOWN Arithmetic operation "--" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
251 | }  
252 | if (x & 0xf > 0) {  
253 |   r -= 4;  
254 | } else {  
255 |   x >>= 4;
```

UNKNOWN Arithmetic operation "--" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
256 | }  
257 | if (x & 0x3 > 0) {  
258 |   r -= 2;  
259 | } else {  
260 |   x >>= 2;
```


UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
260 | x >>= 2;  
261 | }  
262 | if (x & 0x1 > 0) r -= 1;  
263 | }  
264 | }
```

UNKNOWN Arithmetic operation "+=" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
293 | function increment(Counter storage counter) internal {  
294 | unchecked {  
295 | counter._value += 1;  
296 | }  
297 | }
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
301 | require(value > 0, "Counter: decrement overflow");  
302 | unchecked {  
303 | counter._value = value - 1;  
304 | }  
305 | }
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
432 | function average(int256 a, int256 b) internal pure returns (int256) {
433 | // Formula from the book "Hacker's Delight"
434 | int256 x = (a & b) + ((a ^ b) >> 1);
435 | return x + (int256(uint256(x) >> 255) & (a ^ b));
436 | }
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
433 | // Formula from the book "Hacker's Delight"
434 | int256 x = (a & b) + ((a ^ b) >> 1);
435 | return x + (int256(uint256(x) >> 255) & (a ^ b));
436 | }
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
484 | function average(uint256 a, uint256 b) internal pure returns (uint256) {
485 | // (a + b) / 2 can overflow.
486 | return (a & b) + (a ^ b) / 2;
487 | }
```

UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
484 | function average(uint256 a, uint256 b) internal pure returns (uint256) {
485 | // (a + b) / 2 can overflow.
486 | return (a & b) + (a ^ b) / 2;
487 | }
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
495 | function ceilDiv(uint256 a, uint256 b) internal pure returns (uint256) {
496 | // (a + b - 1) / b can overflow on addition, so we distribute.
497 | return a == 0 ? 0 : (a - 1) / b + 1;
498 | }
```

UNKNOWN Arithmetic operation "/" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
495 | function ceilDiv(uint256 a, uint256 b) internal pure returns (uint256) {
496 | // (a + b - 1) / b can overflow on addition, so we distribute.
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Source file

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495 | function ceilDiv(uint256 a, uint256 b) internal pure returns (uint256) {
496 | // (a + b - 1) / b can overflow on addition, so we distribute.
497 | return a == 0 ? 0 : (a - 1) / b + 1;
498 | }
```

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Source file

ElephantNFT_flattened.sol

Locations

```
521 | // The surrounding unchecked block does not change this fact.
522 | // See https://docs.soliditylang.org/en/latest/control-structures.html#checked-or-unchecked-arithmetic.
523 | return prod0 / denominator;
524 | }
```

UNKNOWN Arithmetic operation "+" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
546 |  
547 | // Does not overflow because the denominator cannot be zero at this stage in the function.  
548 | uint256 twos = denominator & (~denominator + 1);  
549 | assembly {  
550 | // Divide denominator by twos.
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
559 |  
560 | // Shift in bits from prod1 into prod0.  
561 | prod0 |= prod1 * twos;  
562 |  
563 | // Invert denominator mod 2^256. Now that denominator is an odd number, it has an inverse modulo 2^256 such
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
564 | // that denominator * inv = 1 mod 2^256. Compute the inverse by starting with a seed that is correct for  
565 | // four bits. That is, denominator * inv = 1 mod 2^4.  
566 | uint256 inverse = (3 * denominator) ^ 2;  
567 |  
568 | // Use the Newton-Raphson iteration to improve the precision. Thanks to Hensel's lifting lemma, this also works
```

UNKNOWN Arithmetic operation "*=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
568 // Use the Newton-Raphson iteration to improve the precision. Thanks to Hensel's lifting lemma, this also works
569 // in modular arithmetic, doubling the correct bits in each step.
570 inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 inverse *= 2 - denominator * inverse; // inverse mod 2^32
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
568 // Use the Newton-Raphson iteration to improve the precision. Thanks to Hensel's lifting lemma, this also works
569 // in modular arithmetic, doubling the correct bits in each step.
570 inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 inverse *= 2 - denominator * inverse; // inverse mod 2^32
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
568 // Use the Newton-Raphson iteration to improve the precision. Thanks to Hensel's lifting lemma, this also works
569 // in modular arithmetic, doubling the correct bits in each step.
570 inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 inverse *= 2 - denominator * inverse; // inverse mod 2^32
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
569 // in modular arithmetic, doubling the correct bits in each step.
570 inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 inverse *= 2 - denominator * inverse; // inverse mod 2^64
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
569 // in modular arithmetic, doubling the correct bits in each step.
570 inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 inverse *= 2 - denominator * inverse; // inverse mod 2^64
```

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SWC-101

Source file

ElephantNFT_flattened.sol

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569 // in modular arithmetic, doubling the correct bits in each step.
570 inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 inverse *= 2 - denominator * inverse; // inverse mod 2^64
```

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Source file

ElephantNFT_flattened.sol

Locations

```
570 | inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 | inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
```

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
570 | inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 | inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
570 | inverse *= 2 - denominator * inverse; // inverse mod 2^8
571 | inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
```

UNKNOWN Arithmetic operation "*" discovered

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Source file

ElephantNFT_flattened.sol

Locations

```
571 | inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
571 | inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
```

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Source file

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Locations

```
571 | inverse *= 2 - denominator * inverse; // inverse mod 2^16
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
```


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ElephantNFT_flattened.sol

Locations

```
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
```

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Source file

ElephantNFT_flattened.sol

Locations

```
572 | inverse *= 2 - denominator * inverse; // inverse mod 2^32
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
```

UNKNOWN Arithmetic operation "*" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
576 |
577 | // Because the division is now exact we can divide by multiplying with the modular inverse of denominator.
```

UNKNOWN Arithmetic operation "-" discovered

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
573 | inverse *= 2 - denominator * inverse; // inverse mod 2^64
574 | inverse *= 2 - denominator * inverse; // inverse mod 2^128
575 | inverse *= 2 - denominator * inverse; // inverse mod 2^256
576 |
577 | // Because the division is now exact we can divide by multiplying with the modular inverse of denominator.
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ElephantNFT_flattened.sol

Locations

```
579 | // less than 2^256, this is the final result. We don't need to compute the high bits of the result and prod1
580 | // is no longer required.
581 | result = prod0 * inverse;
582 | return result;
583 | }
```

UNKNOWN Arithmetic operation "+=" discovered

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Source file

ElephantNFT_flattened.sol

Locations

```
590 | uint256 result = mulDiv(x, y, denominator);
591 | if (rounding == Rounding.Up && mulmod(x, y, denominator) > 0) {
592 |     result += 1;
593 | }
594 | return result;
```

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SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
622 | // into the expected uint128 result.
623 | unchecked {
624 |     result = (result + a / result) >> 1;
625 |     result = (result + a / result) >> 1;
626 |     result = (result + a / result) >> 1;
```

UNKNOWN Arithmetic operation "/" discovered

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Source file

ElephantNFT_flattened.sol

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```
622 | // into the expected uint128 result.
623 | unchecked {
624 |     result = (result + a / result) >> 1;
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```
623 | unchecked {  
624 | result = (result + a / result) >> 1;  
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```
623 | unchecked {  
624 | result = (result + a / result) >> 1;  
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626 | result = (result + a / result) >> 1;  
627 | result = (result + a / result) >> 1;
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```
624 | result = (result + a / result) >> 1;  
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626 | result = (result + a / result) >> 1;  
627 | result = (result + a / result) >> 1;  
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```
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626 | result = (result + a / result) >> 1;  
627 | result = (result + a / result) >> 1;  
628 | result = (result + a / result) >> 1;
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```
625 | result = (result + a / result) >> 1;  
626 | result = (result + a / result) >> 1;  
627 | result = (result + a / result) >> 1;  
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;
```

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This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
625 | result = (result + a / result) >> 1;  
626 | result = (result + a / result) >> 1;  
627 | result = (result + a / result) >> 1;  
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
626 | result = (result + a / result) >> 1;  
627 | result = (result + a / result) >> 1;  
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;  
630 | result = (result + a / result) >> 1;
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
626 | result = (result + a / result) >> 1;  
627 | result = (result + a / result) >> 1;  
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;  
630 | result = (result + a / result) >> 1;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
627 | result = (result + a / result) >> 1;  
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;  
630 | result = (result + a / result) >> 1;  
631 | return min(result, a / result);
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
627 | result = (result + a / result) >> 1;  
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;  
630 | result = (result + a / result) >> 1;  
631 | return min(result, a / result);
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;  
630 | result = (result + a / result) >> 1;  
631 | return min(result, a / result);  
632 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
628 | result = (result + a / result) >> 1;  
629 | result = (result + a / result) >> 1;  
630 | result = (result + a / result) >> 1;  
631 | return min(result, a / result);  
632 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
629 | result = (result + a / result) >> 1;  
630 | result = (result + a / result) >> 1;  
631 | return min(result, a / result);  
632 | }  
633 | }
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
639 | unchecked {  
640 | uint256 result = sqrt(a);  
641 | return result + (rounding == Rounding.Up ? result * result < a ? 1 : 0);  
642 | }  
643 | }
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
639 | unchecked {  
640 | uint256 result = sqrt(a);  
641 | return result + (rounding == Rounding.Up ? result * result < a ? 1 : 0);  
642 | }  
643 | }
```


UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
652 | if (value >> 128 > 0) {  
653 |     value >>= 128;  
654 |     result += 128;  
655 | }  
656 | if (value >> 64 > 0) {  
657 |     value >>= 64;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
656 | if (value >> 64 > 0) {  
657 |     value >>= 64;  
658 |     result += 64;  
659 | }  
660 | if (value >> 32 > 0) {  
661 |     value >>= 32;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
660 | if (value >> 32 > 0) {  
661 |     value >>= 32;  
662 |     result += 32;  
663 | }  
664 | if (value >> 16 > 0) {  
665 |     value >>= 16;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
664 | if (value >> 16 > 0) {  
665 |     value >>= 16;  
666 |     result += 16;  
667 | }  
668 | if (value >> 8 > 0) {  
669 |     value >>= 8;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
668 | if (value >> 8 > 0) {  
669 |     value >>= 8;  
670 |     result += 8;  
671 | }  
672 | if (value >> 4 > 0) {  
673 |     value >>= 4;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
672 | if (value >> 4 > 0) {  
673 |     value >>= 4;  
674 |     result += 4;  
675 | }  
676 | if (value >> 2 > 0) {  
677 |     value >>= 2;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
676 | if (value >> 2 > 0) {  
677 |     value >>= 2;  
678 |     result += 2;  
679 | }  
680 | if (value >> 1 > 0) {  
681 |     result += 1;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
679 | }  
680 | if (value >> 1 > 0) {  
681 |     result += 1;  
682 | }  
683 | }  
684 | return result;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
692 | unchecked {  
693 |     uint256 result = log2(value);  
694 |     return result + rounding == Rounding Up 88 1 << result < value ? 1 : 0;  
695 | }  
696 | }
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
703 | uint256 result = 0;
704 | unchecked {
705 |   if (value >= 10 ** 64)
706 |     value /= 10 ** 64; value /= 10 ** 64;
707 |   result += 64;
708 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
704 | unchecked {
705 |   if (value >= 10 ** 64) {
706 |     value /= 10 ** 64;
707 |     result += 64;
708 |   }
709 |   if (value >= 10 ** 32) {
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
704 | unchecked {
705 |   if (value >= 10 ** 64) {
706 |     value /= 10 ** 64;
707 |     result += 64;
708 |   }
709 |   if (value >= 10 ** 32) {
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
705 | if (value >= 10 ** 64) {  
706 |     value /= 10 ** 64;  
707 |     result += 64;  
708 | }  
709 | if (value >= 10 ** 32) {  
710 |     value /= 10 ** 32;
```

UNKNOWN Arithmetic operation "***" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
707 | result += 64;  
708 | }  
709 | if (value >= 10 ** 32) {  
710 |     value /= 10 ** 32; value /= 10 ** 32;  
711 |     result += 32;  
712 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
708 | }  
709 | if (value >= 10 ** 32) {  
710 |     value /= 10 ** 32;  
711 |     result += 32;  
712 | }  
713 | if (value >= 10 ** 16) {
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
708 | }
709 | if (value >= 10 ** 32) {
710 |     value /= 10 ** 32;
711 |     result += 32;
712 | }
713 | if (value >= 10 ** 16) {
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
709 | if (value >= 10 ** 32) {
710 |     value /= 10 ** 32;
711 |     result += 32;
712 | }
713 | if (value >= 10 ** 16) {
714 |     value /= 10 ** 16;
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
711 | result += 32;
712 | }
713 | if (value >= 10 ** 16) {
714 |     value /= 10 ** 16; value /= 10 ** 16;
715 |     result += 16;
716 | }
```

UNKNOWN Arithmetic operation "/"=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
712 | }
713 | if (value >= 10 ** 16) {
714 | value /= 10 ** 16;
715 | result += 16;
716 | }
717 | if (value >= 10 ** 8) {
```

UNKNOWN Arithmetic operation "*"=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
712 | }
713 | if (value >= 10 ** 16) {
714 | value /= 10 ** 16;
715 | result += 16;
716 | }
717 | if (value >= 10 ** 8) {
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
713 | if (value >= 10 ** 16) {
714 | value /= 10 ** 16;
715 | result += 16;
716 | }
717 | if (value >= 10 ** 8) {
718 | value /= 10 ** 8;
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
715 | result += 16;  
716 | }  
717 | if (value >= 10 ** 8;  
718 | value /= 10 ** 8; value /= 10 ** 8;  
719 | result += 8;  
720 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
716 | }  
717 | if (value >= 10 ** 8) {  
718 | value /= 10 ** 8;  
719 | result += 8;  
720 | }  
721 | if (value >= 10 ** 4) {
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
716 | }  
717 | if (value >= 10 ** 8) {  
718 | value /= 10 ** 8;  
719 | result += 8;  
720 | }  
721 | if (value >= 10 ** 4) {
```


UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
717 | if (value >= 10 ** 8) {  
718 |     value /= 10 ** 8;  
719 |     result += 8;  
720 | }  
721 | if (value >= 10 ** 4) {  
722 |     value /= 10 ** 4;
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
719 |     result += 8;  
720 | }  
721 | if (value >= 10 ** 4) {  
722 |     value /= 10 ** 4; value /= 10 ** 4;  
723 |     result += 4;  
724 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
720 | }  
721 | if (value >= 10 ** 4) {  
722 |     value /= 10 ** 4;  
723 |     result += 4;  
724 | }  
725 | if (value >= 10 ** 2) {
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
720 | }
721 | if (value >= 10 ** 4) {
722 | value /= 10 ** 4;
723 | result += 4;
724 | }
725 | if (value >= 10 ** 2) {
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
721 | if (value >= 10 ** 4) {
722 | value /= 10 ** 4;
723 | result += 4;
724 | }
725 | if (value >= 10 ** 2) {
726 | value /= 10 ** 2;
```

UNKNOWN Arithmetic operation "**" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
723 | result += 4;
724 | }
725 | if (value >= 10 ** 2) {
726 | value /= 10 ** 2; value /= 10 ** 2;
727 | result += 2;
728 | }
```

UNKNOWN Arithmetic operation "/"=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
724 | }
725 | if (value >= 10 ** 2) {
726 | value /= 10 ** 2;
727 | result += 2;
728 | }
729 | if (value >= 10 ** 1) {
```

UNKNOWN Arithmetic operation "*"=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
724 | }
725 | if (value >= 10 ** 2) {
726 | value /= 10 ** 2;
727 | result += 2;
728 | }
729 | if (value >= 10 ** 1) {
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
725 | if (value >= 10 ** 2) {
726 | value /= 10 ** 2;
727 | result += 2;
728 | }
729 | if (value >= 10 ** 1) {
730 | result += 1;
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
727 | result += 2;  
728 | }  
729 | if (value >= 10 ** 1) {  
730 |     result += 1; result += 1;  
731 | }  
732 | }
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
728 | }  
729 | if (value >= 10 ** 1) {  
730 |     result += 1;  
731 | }  
732 | }  
733 | return result;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
741 | unchecked {  
742 |     uint256 result = log10(value);  
743 |     return result + rounding == Rounding Up 88 10 ** result < value ? 1 : 0;  
744 | }  
745 | }
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
741 | unchecked {
742 |   uint256 result = log10(value);
743 |   return result + (rounding == Rounding.Up ? 10 ** result < value ? 1 : 0);
744 | }
745 | }
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
756 | if (value >> 128 > 0) {
757 |   value >>= 128;
758 |   result += 16;
759 | }
760 | if (value >> 64 > 0) {
761 |   value >>= 64;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
760 | if (value >> 64 > 0) {
761 |   value >>= 64;
762 |   result += 8;
763 | }
764 | if (value >> 32 > 0) {
765 |   value >>= 32;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
764 | if (value >> 32 > 0) {  
765 |     value >>= 32;  
766 |     result += 4;  
767 | }  
768 | if (value >> 16 > 0) {  
769 |     value >>= 16;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
768 | if (value >> 16 > 0) {  
769 |     value >>= 16;  
770 |     result += 2;  
771 | }  
772 | if (value >> 8 > 0) {  
773 |     result += 1;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
771 | }  
772 | if (value >> 8 > 0) {  
773 |     result += 1;  
774 | }  
775 | }  
776 | return result;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
784 | unchecked {
785 |   uint256 result = log256(value);
786 |   return result + rounding == Rounding Up && 1 << (result << 3) < value ? 1 : 0;
787 | }
788 | }
789 | }
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
810 | function toString(uint256 value) internal pure returns (string memory) {
811 |   unchecked {
812 |     uint256 length = Math.log10(value) + 1;
813 |     string memory buffer = new string(length);
814 |     uint256 ptr;
815 |     /// @solidity memory-safe-assembly
```

UNKNOWN Arithmetic operation "--" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
818 | }
819 | while (true) {
820 |   ptr--;
821 |   /// @solidity memory-safe-assembly
822 |   assembly {
823 |     mstore8(ptr, byte(mod(value, 10), _SYMBOLS))
```

UNKNOWN Arithmetic operation "/=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
823 | mstore8(ptr, byte(mod(value, 10), _SYMBOLS))
824 | }
825 | value /= 10;
826 | if (value == 0) break;
827 | }
828 | return buffer;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
842 | function toHexString(uint256 value) internal pure returns (string memory) {
843 |     unchecked {
844 |         return toHexString(value, Math.log256(value) + 1);
845 |     }
846 | }
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
850 | */
851 | function toHexString(uint256 value, uint256 length) internal pure returns (string memory) {
852 |     bytes memory buffer = new bytes(2 * length + 2);
853 |     buffer[0] = "0";
854 |     buffer[1] = "x";
855 |     for (uint256 i = 2 * length + 1; i > 1; --i) {
```


UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
850 | */
851 | function toHexString(uint256 value, uint256 length) internal pure returns (string memory) {
852 |     bytes memory buffer = new bytes(2 * length + 2);
853 |     buffer[0] = "0";
854 |     buffer[1] = "x";
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
853 |     buffer[0] = "0";
854 |     buffer[1] = "x";
855 |     for (uint256 i = 2 * length + 1; i > 1; --i) {
856 |         buffer[i] = _SYMBOLS[value & 0xf];
857 |         value >>= 4;
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
853 |     buffer[0] = "0";
854 |     buffer[1] = "x";
855 |     for (uint256 i = 2 * length + 1; i > 1; --i) {
856 |         buffer[i] = _SYMBOLS[value & 0xf];
857 |         value >>= 4;
```

UNKNOWN Arithmetic operation "--" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
853 | buffer[0] = "0";
854 | buffer[1] = "x";
855 | for (uint256 i = 2 * length + 1; i > 1; --i) {
856 |     buffer[i] = _SYMBOLS[value & 0xf]; buffer[i] = _SYMBOLS[value & 0xf];
857 |     value >>= 4;
858 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
908 | function isRare(uint256 tokenId, address collection) internal pure returns (bool) {
909 |     bytes32 h = keccak256(abi.encodePacked(tokenId, collection));
910 |     return uint256(h) < type(uint256).max / (1 + BitMath.mostSignificantBit(tokenId) + 2);
911 | }
912 |
913 | function generateSVGDefs(uint256 tokenId, address collection) private pure returns (string memory svg) {
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
908 | function isRare(uint256 tokenId, address collection) internal pure returns (bool) {
909 |     bytes32 h = keccak256(abi.encodePacked(tokenId, collection));
910 |     return uint256(h) < type(uint256).max / (1 + BitMath.mostSignificantBit(tokenId) + 2);
911 | }
912 |
913 | function generateSVGDefs(uint256 tokenId, address collection) private pure returns (string memory svg) {
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
908 | function isRare(uint256 tokenId, address collection) internal pure returns (bool) {
909 |     bytes32 h = keccak256(abi.encodePacked(tokenId, collection));
910 |     return uint256(h) < type(uint256).max / (1 + BitMath.mostSignificantBit(tokenId) * 2);
911 | }
912 |
913 | function generateSVGDefs(uint256 tokenId, address collection) private pure returns (string memory svg) {
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
956 | string[] memory dDefs = new string[](defs.length);
957 |
958 | for (uint i = 0; i < defs.length; i++) {
959 |     dDefs[i] = defs[i]; dDefs[i] = defs[i];
960 | }
961 |
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1010 |
1011 | for (uint i = 0; i < borderInfo.length; i++) {
1012 |     dBorderInfo[i] = borderInfo[i];
1013 | }
1014 |
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1035 |
1036 | for (uint i = 0; i < bodyText.length; i++) {
1037 |     dBodyText[i] = bodyText[i];
1038 | }
1039 |
```

UNKNOWN Arithmetic operation "%" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1050 | uint256 hue = h % 360;
1051 |
1052 | uint256 sat = 50 + (h % 50);
1053 |
1054 | uint256 secondOffset = 5 + (h % 60);
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1050 | uint256 hue = h % 360;
1051 |
1052 | uint256 sat = 50 + (h % 50);
1053 |
1054 | uint256 secondOffset = 5 + (h % 60);
1055 |
1056 | uint256 lumin1 = h % 30;
```

UNKNOWN Arithmetic operation "%" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1052 | uint256 sat = 50 + (h % 50);
1053 |
1054 | uint256 secondOffset = 5 + (h % 60);
1055 |
1056 | uint256 lumin1 = h % 30;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1052 | uint256 sat = 50 + (h % 50);
1053 |
1054 | uint256 secondOffset = 5 + (h % 60);
1055 |
1056 | uint256 lumin1 = h % 30;
1057 |
1058 | uint256 lumin2 = lumin1 * 2;
```

UNKNOWN Arithmetic operation "%" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1054 | uint256 secondOffset = 5 + (h % 60);
1055 |
1056 | uint256 lumin1 = h % 30;
1057 |
1058 | uint256 lumin2 = lumin1 * 2;
```

UNKNOWN Arithmetic operation "%" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1056 | uint256 lumin1 = h % 30;  
1057 |  
1058 | uint256 lumin2 = lumin1 * 2;  
1059 |  
1060 | if (isRare(tokenId, collection)) {
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1057 |  
1058 | uint256 lumin2 = lumin1 * 2;  
1059 |  
1060 | if (isRare(tokenId, collection)) {  
1061 |     svg = string(  
1062 |     abi.encodePacked(  

```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1097 | ) private pure returns (string memory svg) {  
1098 |     string memory sequence = string(abi.encodePacked(tokenId.toString(), unicode' ', round.toString()));  
1099 |     uint256 str1length = bytes(sequence).length + 4;  
1100 |     uint256 rectWidth = 7 * (str1length + 4);  
1101 |     uint256 xLoc = 290 - 32 - rectWidth; //290 total width, 32 padding
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1098 | string memory sequence = string(abi.encodePacked(tokenId.toString(), unicode'•', round.toString()));
1099 | uint256 str1length = bytes(sequence).length + 4;
1100 | uint256 rectWidth = 7 * (str1length + 4);
1101 | uint256 xLoc = 290 - 32 - rectWidth; //290 total width, 32 padding
1102 |
1103 | svg = string(
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1098 | string memory sequence = string(abi.encodePacked(tokenId.toString(), unicode'•', round.toString()));
1099 | uint256 str1length = bytes(sequence).length + 4;
1100 | uint256 rectWidth = 7 * (str1length + 4);
1101 | uint256 xLoc = 290 - 32 - rectWidth; //290 total width, 32 padding
1102 |
1103 | svg = string(
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1099 | uint256 str1length = bytes(sequence).length + 4;
1100 | uint256 rectWidth = 7 * (str1length + 4);
1101 | uint256 xLoc = 290 - 32 - rectWidth; //290 total width, 32 padding
1102 |
1103 | svg = string(
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1099 | uint256 strLength = bytes(sequence).length + 4;
1100 | uint256 rectWidth = 7 * (strLength + 4);
1101 | uint256 xLoc = 290 - 32 - rectWidth; //290 total width, 32 padding
1102 |
1103 | svg = string(
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1122 |
1123 | for (uint i = 0; i < segments.length; i++) {
1124 |     result = string(abi.encodePacked(result, segments[i]));
1125 | }
1126 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1817 | }
1818 |
1819 | uint256 royaltyAmount = (salePrice * royalty.royaltyFraction) / feeDenominator();
1820 |
1821 | return (royalty.receiver, royaltyAmount);
1822 | }
```


UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
1817 | }
1818 |
1819 | uint256 royaltyAmount = (salePrice * royalty.royaltyFraction) / .feeDenominator();
1820 |
1821 | return (royalty.receiver, royaltyAmount);
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2348 | // this ever happens. Might change if we allow batch minting.
2349 | // The ERC fails to describe this case.
2350 | _balances[to] += 1;
2351 |
2352 |
2353 | _owners[tokenId] = to;
2354 |
2355 | emit Transfer(address(0), to, tokenId);
```

UNKNOWN Arithmetic operation "-=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2383 | // Cannot overflow, as that would require more tokens to be burned/transferred
2384 | // out than the owner initially received through minting and transferring in.
2385 | _balances[owner] -= 1;
2386 |
2387 | delete _owners[tokenId];
2388 |
2389 | emit Transfer(owner, address(0), tokenId);
```

UNKNOWN Arithmetic operation "-=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2421 | // `_balances[to]` could overflow in the conditions described in `_mint`. That would require
2422 | // all 2**256 token ids to be minted, which in practice is impossible.
2423 | _balances[from] -= 1;
2424 | _balances[to] += 1;
2425 | }
2426 | _owners[tokenId] = to;
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2422 | // all 2**256 token ids to be minted, which in practice is impossible.
2423 | _balances[from] -= 1;
2424 | _balances[to] += 1;
2425 |
2426 | _owners[tokenId] = to;
2427 |
2428 | emit Transfer(from, to, tokenId);
```

UNKNOWN Arithmetic operation "+=" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2534 | // solhint-disable-next-line func-name-mixedcase
2535 | function _unsafe_increaseBalance(address account, uint256 amount) internal {
2536 |     _balances[account] += amount;
2537 |
2538 |
2539 |
2540 | // File: @openzeppelin/contracts/token/ERC721/extensions/ERC721Royalty.sol
2541 |
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2697 | // then delete the last slot (swap and pop).
2698 |
2699 | uint256 lastTokenIndex = ERC721.balanceOf(from) - 1;
2700 | uint256 tokenIndex = _ownedTokensIndex[tokenId];
2701 |
2702 | // When the token to delete is the last token, the swap operation is unnecessary
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2722 | // then delete the last slot (swap and pop).
2723 |
2724 | uint256 lastTokenIndex = _allTokens.length - 1;
2725 | uint256 tokenIndex = _allTokensIndex[tokenId];
2726 |
2727 | // When the token to delete is the last token, the swap operation is unnecessary. However, since this occurs so
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2785 | _tokenIdCounter.increment(); //next
2786 | current++;
2787 | tokenId = _tokenIdCounter.current();
2788 | }
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2791 |  
2792 | function price() external view returns (uint256) {  
2793 | return BASE_PRICE * (2 ** (totalSupply()) / ROUND_SIZE);  
2794 |  
2795 |  
2796 | function round() external view returns (uint256) {  
2797 | return (totalSupply() / ROUND_SIZE) + 1;  
2798 | }
```

UNKNOWN Arithmetic operation "*" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2791 |  
2792 | function price() external view returns (uint256) {  
2793 | return BASE_PRICE * (2 ** (totalSupply()) / ROUND_SIZE);  
2794 |  
2795 |  
2796 | function round() external view returns (uint256) {  
2797 | return (totalSupply() / ROUND_SIZE) + 1;  
2798 | }
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2791 |  
2792 | function price() external view returns (uint256) {  
2793 | return BASE_PRICE * (2 ** (totalSupply()) / ROUND_SIZE);  
2794 |  
2795 |  
2796 | function round() external view returns (uint256) {  
2797 | return (totalSupply() / ROUND_SIZE) + 1;  
2798 | }
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2795
2796 function round() external view returns (uint256) {
2797     return (totalSupply() / ROUND_SIZE) + 1;
2798
2799
2800 function roundOf(uint256 tokenId) public pure returns (uint256) {
2801     require(tokenId > 0, "tokenId must be non-zero");
2802     return ((tokenId - 1) / ROUND_SIZE) + 1;
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2795
2796 function round() external view returns (uint256) {
2797     return (totalSupply() / ROUND_SIZE) + 1;
2798
2799
2800 function roundOf(uint256 tokenId) public pure returns (uint256) {
2801     require(tokenId > 0, "tokenId must be non-zero");
2802     return ((tokenId - 1) / ROUND_SIZE) + 1;
```

UNKNOWN Arithmetic operation "+" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2800 function roundOf(uint256 tokenId) public pure returns (uint256) {
2801     require(tokenId > 0, "tokenId must be non-zero");
2802     return ((tokenId - 1) / ROUND_SIZE) + 1;
2803
2804
2805
2806 function safeMint(address to) public onlyRole(MINTER_ROLE) {
2807     uint256 tokenId = _tokenIdCounter.current();
2808     _tokenIdCounter.increment();
```

UNKNOWN Arithmetic operation "/" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2800 | function roundOf(uint256 tokenId) public pure returns (uint256) {
2801 |     require(tokenId > 0, "tokenId must be non-zero");
2802 |     return ((tokenId - 1) / ROUND_SIZE) + 1;
2803 |
2804 |
2805 |
2806 | function safeMint(address to) public onlyRole(MINTER_ROLE) {
```

UNKNOWN Arithmetic operation "-" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2800 | function roundOf(uint256 tokenId) public pure returns (uint256) {
2801 |     require(tokenId > 0, "tokenId must be non-zero");
2802 |     return ((tokenId - 1) / ROUND_SIZE) + 1;
2803 | }
```

UNKNOWN Arithmetic operation "++" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2826 | tokenIds = new uint[](balance);
2827 | for (uint i=0; i < balance; i++) {
2828 |     tokenIds[i] = tokenOfOwnerByIndex(owner, i);
2829 | }
2830 | }
```

UNKNOWN Compiler-rewritable "<uint> - 1" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
301 | require(value > 0, "Counter: decrement overflow");
302 | unchecked {
303 |   counter._value = value - 1;
304 | }
305 | }
```

UNKNOWN Compiler-rewritable "<uint> - 1" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
495 | function ceilDiv(uint256 a, uint256 b) internal pure returns (uint256) {
496 |   // (a + b - 1) / b can overflow on addition, so we distribute.
497 |   return a == 0 ? 0 : (a - 1) / b + 1;
498 | }
```

UNKNOWN Compiler-rewritable "<uint> - 1" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2697 | // then delete the last slot (swap and pop).
2698 |
2699 | uint256 lastTokenIndex = ERC721.balanceOf(from) - 1;
2700 | uint256 tokenIndex = _ownedTokensIndex[tokenId];
2701 |
2702 | // When the token to delete is the last token, the swap operation is unnecessary
```

UNKNOWN Compiler-rewritable "<uint> - 1" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2722 | // then delete the last slot (swap and pop).
2723 |
2724 | uint256 lastTokenIndex = _allTokens.length - 1;
2725 | uint256 tokenIndex = _allTokensIndex[tokenId];
2726 |
2727 | // When the token to delete is the last token, the swap operation is unnecessary. However, since this occurs so
```

UNKNOWN Compiler-rewritable "<uint> - 1" discovered

This plugin produces issues to support false positive discovery within MythX.

SWC-101

Source file

ElephantNFT_flattened.sol

Locations

```
2800 | function roundOf(uint256 tokenId) public pure returns (uint256) {
2801 |     require(tokenId > 0, "tokenId must be non-zero");
2802 |     return ((tokenId - 1) / ROUND_SIZE) + 1;
2803 | }
```

LOW A floating pragma is set.

The current pragma Solidity directive is "">=0.6.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

SWC-103

Source file

ElephantNFT_flattened.sol

Locations

```
38 |
39 |
40 | pragma solidity >=0.6.0;
41 |
42 | /// @title Base64
```


LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is "">=0.5.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
170 |  
171 |  
172 | pragma solidity >=0.5.0;  
173 |  
174 | /// @title BitMath
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
269 | // OpenZeppelin Contracts v4.4.1 (utils/Counters.sol)  
270 |  
271 | pragma solidity ^0.8.0;  
272 |  
273 | /**
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
315 | // OpenZeppelin Contracts v4.4.1 (access/IAccessControl.sol)  
316 |  
317 | pragma solidity ^0.8.0;  
318 |  
319 | /**
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
406 // OpenZeppelin Contracts (last updated v4.8.0) (utils/math/SignedMath.sol)
407
408 pragma solidity ^0.8.0;
409
410 /**
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
452 // OpenZeppelin Contracts (last updated v4.9.0) (utils/math/Math.sol)
453
454 pragma solidity ^0.8.0;
455
456 /**
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
794 // OpenZeppelin Contracts (last updated v4.9.0) (utils/Strings.sol)
795
796 pragma solidity ^0.8.0;
797
798
799
800 /**
801 * @dev String operations.
802 */
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.9"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
880 |
881 | //pragma solidity >=0.7.6;
882 | pragma solidity ^0.8.9;
883 |
884 |
885 |
886 |
887 | /// @title NFTSVG
888 | /// @notice Provides a function for generating an SVG associated with a Uniswap NFT
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1132 | // OpenZeppelin Contracts v4.4.1 (utils/Context.sol)
1133 |
1134 | pragma solidity ^0.8.0;
1135 |
1136 | /**
1137 |  * @dev Provides information about the current execution context, including the
1138 |  * sender of the transaction and its data. While these are generally available
1139 |  * via msg.sender and msg.data, they should not be accessed in such a direct
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.1"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1159 | // OpenZeppelin Contracts (last updated v4.9.0) (utils/Address.sol)
1160 |
1161 | pragma solidity ^0.8.1;
1162 |
1163 | /**
1164 |  * @dev Collection of functions related to the address type
1165 |  */
1166 | library Address {
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1406 // OpenZeppelin Contracts (last updated v4.6.0) (token/ERC721/IERC721Receiver.sol)
1407
1408 pragma solidity ^0.8.0;
1409
1410 /**
1411  * @title ERC721 token receiver interface
1412  * @dev Interface for any contract that wants to support safeTransfers
1413  * from ERC721 asset contracts.
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1436 // OpenZeppelin Contracts v4.4.1 (utils/introspection/IERC165.sol)
1437
1438 pragma solidity ^0.8.0;
1439
1440 /**
1441  * @dev Interface of the ERC165 standard, as defined in the
1442  * https://eips.ethereum.org/EIPS/eip-165[EIP].
1443  *
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1464 // OpenZeppelin Contracts (last updated v4.9.0) (interfaces/IERC2981.sol)
1465
1466 pragma solidity ^0.8.0;
1467
1468
1469 /**
1470  * @dev Interface for the NFT Royalty Standard.
1471  *
1472  * A standardized way to retrieve royalty payment information for non-fungible tokens (NFTs) to enable universal
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1491 // OpenZeppelin Contracts v4.4.1 (utils/introspection/ERC165.sol)
1492
1493 pragma solidity ^0.8.0;
1494
1495
1496 /**
1497  * @dev Implementation of the {IERC165} interface.
1498  *
1499  * Contracts that want to implement ERC165 should inherit from this contract and override {supportsInterface} to check
```

LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1522 // OpenZeppelin Contracts (last updated v4.9.0) (access/AccessControl.sol)
1523
1524 pragma solidity ^0.8.0;
1525
1526
1527
1528
1529
1530 /**
1531  * @dev Contract module that allows children to implement role-based access
1532  * control mechanisms. This is a lightweight version that doesn't allow enumerating role
1533  * members except through off-chain means by accessing the contract event logs. Some
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1772 // OpenZeppelin Contracts (last updated v4.9.0) (token/common/ERC2981.sol)
1773
1774 pragma solidity ^0.8.0;
1775
1776
1777
1778 /**
1779  * @dev Implementation of the NFT Royalty Standard, a standardized way to retrieve royalty payment information.
1780  *
1781  * Royalty information can be specified globally for all token ids via {_setDefaultRoyalty}, and/or individually for
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
1881 // OpenZeppelin Contracts (last updated v4.9.0) (token/ERC721/IERC721.sol)
1882
1883 pragma solidity ^0.8.0;
1884
1885
1886 /**
1887  * @dev Required interface of an ERC721 compliant contract.
1888  */
1889 interface IERC721 is IERC165 {
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
2015 // OpenZeppelin Contracts (last updated v4.5.0) (token/ERC721/extensions/IERC721Enumerable.sol)
2016
2017 pragma solidity ^0.8.0;
2018
2019
2020 /**
2021  * @title ERC-721 Non-Fungible Token Standard, optional enumeration extension
2022  * @dev See https://eips.ethereum.org/EIPS/eip-721
2023  */
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
2046 // OpenZeppelin Contracts v4.4.1 (token/ERC721/extensions/IERC721Metadata.sol)
2047
2048 pragma solidity ^0.8.0;
2049
2050
2051 /**
2052  * @title ERC-721 Non-Fungible Token Standard, optional metadata extension
2053  * @dev See https://eips.ethereum.org/EIPS/eip-721
2054  */
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.0"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
2075 // OpenZeppelin Contracts (last updated v4.9.0) (token/ERC721/ERC721.sol)
2076
2077 pragma solidity ^0.8.0;
2078
2079
2080
2081
2082
2083
2084
2085
2086 /**
2087  * @dev Implementation of https://eips.ethereum.org/EIPS/eip-721[ERC721] Non-Fungible Token Standard, including
2088  * the Metadata extension, but not including the Enumerable extension, which is available separately as
2089  * {ERC721Enumerable}.
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
2543 // OpenZeppelin Contracts (last updated v4.8.0) (token/ERC721/extensions/ERC721Royalty.sol)
2544
2545 pragma solidity ^0.8.0;
2546
2547
2548
2549
2550 /**
2551  * @dev Extension of ERC721 with the ERC2981 NFT Royalty Standard, a standardized way to retrieve royalty payment
2552  * information.
2553  *
```

LOW A floating pragma is set.

SWC-103

The current pragma Solidity directive is `""^0.8.0""`. It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
2583 // OpenZeppelin Contracts (last updated v4.8.0) (token/ERC721/extensions/ERC721Enumerable.sol)
2584
2585 pragma solidity ^0.8.0;
2586
2587
2588
2589 /**
2590  * @dev This implements an optional extension of {ERC721} defined in the EIP that adds
2591  * enumerability of all the token ids in the contract as well as all token ids owned by each
2592  * account.
```


LOW

A floating pragma is set.

SWC-103

The current pragma Solidity directive is ""^0.8.9"". It is recommended to specify a fixed compiler version to ensure that the bytecode produced does not vary between builds. This is especially important if you rely on bytecode-level verification of the code.

Source file

ElephantNFT_flattened.sol

Locations

```
2742
2743
2744 pragma solidity ^0.8.9;
2745
2746
2747
2748
2749
2750
2751
2752
2753 /// @custom:security-contact contact@elephant.money
2754 contract ElephantMoneyUnlimitedNFT is ERC721Royalty, ERC721Enumerable, AccessControl {
2755     using Counters for Counters.Counter;
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
851 function toHexString(uint256 value, uint256 length) internal pure returns (string memory) {
852     bytes memory buffer = new bytes(2 * length + 2);
853     buffer[0] = "0";
854     buffer[1] = "x";
855     for (uint256 i = 2 * length + 1; i > 1; --i) {
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
852 bytes memory buffer = new bytes(2 * length + 2);
853 buffer[0] = "0";
854 buffer[1] = "x";
855 for (uint256 i = 2 * length + 1; i > 1; --i) {
856     buffer[i] = _SYMBOLS[value & 0xf];
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
854 | buffer[1] = "x";
855 | for (uint256 i = 2 * length + 1; i > 1; --i) {
856 |   buffer[i] = _SYMBOLS[value & 0xf];
857 |   value >>= 4;
858 | }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
854 | buffer[1] = "x";
855 | for (uint256 i = 2 * length + 1; i > 1; --i) {
856 |   buffer[i] = _SYMBOLS[value & 0xf];
857 |   value >>= 4;
858 | }
859 | require(value == 0, "Strings: hex length insufficient");
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
957 |
958 | for (uint i = 0; i < defs.length; i++) {
959 |   dDef[i] = defs[i];
960 | }
961 |
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
957 |
958 | for (uint i = 0; i < defs.length; i++) {
959 |   dDefs[i] = defs[i];
960 | }
961 |
962 | svg = packStrings(dDefs);
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
1010 |
1011 | for (uint i = 0; i < borderInfo.length; i++) {
1012 |   dBorderInfo[i] = borderInfo[i];
1013 | }
1014 |
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
1010 |
1011 | for (uint i = 0; i < borderInfo.length; i++) {
1012 |   dBorderInfo[i] = borderInfo[i];
1013 |
1014 |
1015 |   svg = packStrings(dBorderInfo);
1016 | }
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
1035 |
1036 | for (uint i = 0; i < bodyText.length; i++) {
1037 |     dBodyText[i] = bodyText[i];
1038 | }
1039 |
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
1035 |
1036 | for (uint i = 0; i < bodyText.length; i++) {
1037 |     dBodyText[i] = bodyText[i];
1038 |
1039 |
1040 |     svg = packStrings(dBodyText);
1041 |
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
1122 |
1123 | for (uint i = 0; i < segments.length; i++) {
1124 |     result = string(abi.encodePacked(result, segments[i]));
1125 |
1126 | }
1127 |
1128 |
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
2652 | function tokenByIndex(uint256 index) public view virtual override returns (uint256) {
2653 |     require(index < ERC721Enumerable.totalSupply(), "ERC721Enumerable: global index out of bounds");
2654 |     return _allTokens[index];
2655 |
2656 |
2657 | **
2658 | * @dev See {ERC721-_beforeTokenTransfer}.
2659 | */
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
2728 | // rarely (when the last minted token is burnt) that we still do the swap here to avoid the gas cost of adding
2729 | // an 'if' statement (like in _removeTokenFromOwnerEnumeration)
2730 | uint256 lastTokenId = _allTokens[lastTokenIndex];
2731 |
2732 | _allTokens[tokenIndex] = lastTokenId; // Move the last token to the slot of the to-delete token
2733 | _allTokensIndex[lastTokenId] = tokenIndex; // Update the moved token's index
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
2730 | uint256 lastTokenId = _allTokens[lastTokenIndex];
2731 |
2732 | _allTokens[tokenIndex] = lastTokenId; // Move the last token to the slot of the to-delete token
2733 | _allTokensIndex[lastTokenId] = tokenIndex; // Update the moved token's index
```

UNKNOWN Out of bounds array access

The index access expression can cause an exception in case of use of invalid array index value.

SWC-110

Source file

ElephantNFT_flattened.sol

Locations

```
2826 | tokenIds = new uint[](balance);
2827 | for (uint i=0; i < balance; i++) {
2828 | tokenIds[i] = tokenOfOwnerByIndex(owner, i);
2829 | }
2830 | }
```