

## Apocalyptic Numbers

Published by [Kavin Umasankar](#) in [JavaScript](#) ▾

math numbers validation +

A number  $n$  is **apocalyptic** if  $2^n$  contains a string of 3 consecutive 6s (666 being the presumptive "number of the beast").

Create a function that takes a number  $n$  as input. If the number is apocalyptic, find the index of 666 in  $2^n$ , and return "Repent! X days until the Apocalypse!" (X being the index). If not, return "Crisis averted. Resume sinning."

### Examples

```
apocalyptic(109) → "Crisis averted. Resume sinning."
```

```
apocalyptic(157) → "Repent! 9 days until the Apocalypse!"
```

```
// 2^157 -> 182687704666362864775460604089535377456991567872
```

```
// 666 at 10th position (index 9)
```

```
apocalyptic(175) → "Crisis averted. Resume sinning."
```

```
apocalyptic(220) → "Repent! 6 days until the Apocalypse!"
```

## Code

```
JS apocalyptic.js > ...
1  const apocalyptic = (n) => {
2    let days = `${BigInt(2) ** BigInt(n)}`.indexOf('666');
3    return days === -1
4      ? 'Crisis averted. Resume sinning.'
5      : `Repent! ${days} days until the Apocalypse!`;
6  };
7
8  console.log(apocalyptic(109))
9  console.log(apocalyptic(157))
10 console.log(apocalyptic(175))
11 console.log(apocalyptic(220))
12
13
```

Run

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

```
PS C:\js\edabit\e> node apocalyptic.js  
Crisis averted. Resume sinning.  
Repent! 9 days until the Apocalypse!  
Crisis averted. Resume sinning.  
Repent! 6 days until the Apocalypse!  
PS C:\js\edabit\e> █
```