EXAMPLE 33: UNDERSTANDING NaN

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Nan IS A SPECIAL VALUE THAT APPEARS WHEN A NUMBER IS EXPECTED, BUT SOMETHING UNEXPECTED OCCURS.

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USE THE ISNaN(x) FUNCTION, NOT x == NaN

THIS IS QUITE IMPORTANT - REMEMBER THIS, ELSE WEIRD BUGS WILL OCCUR!

Is 123 NaN? : false

A LEGIT NUMBER IS OBVIOUSLY NOT Nan

```
Is <empty string> NaN? : false
Is undefined NaN? : true
Is null NaN? : false
Is 0/0 NaN? : true
Is The string 'NaN' NaN? : true
Is The value NaN NaN? : true
```

```
Is 123 NaN? : false
```

Is '123' NaN? : false

A STRING THAT CAN BE CONVERTED TO A NUMBER IS NOT Nan EITHER

```
Is undefined NaN? : true
```

Is null NaN? : false

Is 0/0 NaN? : true

Is The string 'NaN' NaN? : true

Is The value NaN NaN? : true

```
Is 123 NaN? : false
Is '123' NaN? : false
Is Math.sqrt(-1) NaN? : true
```

AHA! SQUARE ROOT OF A NEGATIVE NUMBER IS MOST PEFINITELY Nan!

```
Is null NaN? : false
Is 0/0 NaN? : true
Is The string 'NaN' NaN? : true
Is The value NaN NaN? : true
```

```
Is 123 NaN? : false
Is '123' NaN? : false
Is Math.sqrt(-1) NaN? : true
Is 'Heloo' NaN? : true
```

A STRING THAT CAN'T BE CONVERTED TO A NUMBER IS Nan TOO!

```
Is 0/0 NaN?: true

Is The string 'NaN' NaN?: true

Is The value NaN NaN?: true
```

```
Is 123 NaN? : false
Is '123' NaN? : false
Is Math.sqrt(-1) NaN? : true
Is 'Heloo' NaN? : true
Is <empty string> NaN? : false
```

AN EMPTY STRING IS NOT Nan (BECAUSE IT CAN BE CONVERTED TO 0)

```
Is The string 'NaN' NaN? : true
Is The value NaN NaN? : true
```

```
Is 123 NaN? : false
Is '123' NaN? : false
Is Math.sqrt(-1) NaN? : true
Is 'Heloo' NaN? : true
Is <empty string> NaN? : false
Is undefined NaN? : true
```

undefined \$ NaN.

Is The value NaN NaN? : true

```
Is 123 NaN? : false
Is '123' NaN? : false
Is Math.sqrt(-1) NaN? : true
Is 'Heloo' NaN? : true
Is <empty string> NaN? : false
Is undefined NaN? : true
Is null NaN? : false
```

null IS NOT Nan, BECAUSE IT CAN BE CONVERTED TO 0

```
Is 123 NaN? : false
Is '123' NaN? : false
Is Math.sqrt(-1) NaN? : true
Is 'Heloo' NaN? : true
```

PIVISION BY ZERO! THIS IS Nan

```
Is 0/0 NaN? : true

Is The string 'NaN' NaN? : true

Is The value NaN NaN? : true
```

```
Is 123 NaN? : false
Is '123' NaN? : false
Is Math.sqrt(-1) NaN? : true
Is 'Heloo' NaN? : true
Is <empty string> NaN? : false
```

THE STRING 'NAN' AND THE VALUE Nan ARE BOTH Nan

```
Is The string 'NaN' NaN? : true
Is The value NaN NaN? : true
```

ITS IRONIC -Nan STANDS FOR 'NOT A NUMBER

typeof Nan RETURNS - GUESS WHAT?

What is the type of NaN? number

JAVASCRIPT QUIRKS

ARE ANNOYING WHEN YOU FIRST ENCOUNTER THEM, BUT OVER TIME THEY BECOME AMUSING, EVEN

STRANGE SPECIAL VALUES

STRINGS AND NUMBERS

STRANGE COMPARISON OPERATORS

TRUTHY AND FALSEY

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