

# Binary search algorithm

A search where you can say “higher” or “lower” is called a **binary search algorithm**

This is often quicker and **more efficient**, especially if the set of things to search through is big

But the set of things to search through **must** be **in order**

# Binary search algorithm

Here's an algorithm for a binary search:

```
SET guesses to 0
```

```
WHILE number not found:
```

```
    Guess the mid point of the set
```

```
    Add 1 to guesses
```

```
    IF "higher":
```

```
        DELETE the bottom half of the set
```

```
    IF "lower":
```

```
        DELETE the top half of the set
```

```
PRINT ("found it in" + guesses)
```