



# SORTING



Computer programs can find information really fast. For example, among billions of pages it can find those with pictures of cats in a fraction of a second. **What's the secret?**

The computer sorts the pages, let's say by alphabetical order.

You can sort numbers, words, things, as long as you can compare them.

There are different ways to sort things, these ways are called sorting algorithms. One type of sorting algorithm is Selection Sort.



## Selection Sort Algorithm (in ascending order)

1. Arrange all your unsorted numbers in a horizontal line
2. Find the smallest number among all your numbers and swap it with the number in first spot
3. Then find the smallest number among the rest of the numbers, swap it with the number in the second spot
4. Then find the smallest number among the rest of the numbers, swap it with the number in the third spot
5. Keep doing this until all numbers are sorted

## Now it's your turn!

1. Use the next sheet to cut 10 cards. Write numbers on them (not necessarily from 1 to 10)
2. Line up the cards horizontally
3. Use sorting algorithm to sort the numbers

**Too easy? Try sorting large numbers or more cards or words!**

I am sorting



I am sorting



I am sorting



I am sorting



I am sorting



I am sorting



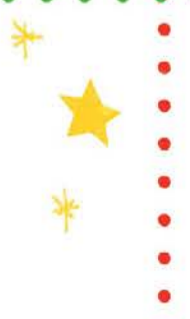
I am sorting



I am sorting



I am sorting



I am sorting

