

can you think of another algorithm?

Selection Sort

and repeat the process starting with \$239. This is

Now we have the smallest number, we swap it with the top number:

- \$250
- \$239
- \$214
- \$207
- \$205

The next number, \$250, isn't smaller than \$214, so \$214 remains the smallest

This is the pseudo-code:

```

FUNCTION sort(array)
FOR i = 0 TO end of array
  smallest = i
  FOR index = i+1 TO end of array
    IF array[index] < array[smallest]
      smallest = index
  ENDIF
NEXT

```

SWAP items at index + smallest
NEXT
RETURN array

you can probably tell this isn't the most efficient algorithm, but it is able to sort an array. Now you can go to Disney world!

moving on, \$214 is smaller, so it's the new smallest

- \$307
- \$239
- \$214
- \$250
- \$207
- \$239
- \$214
- \$250

Going to the next number, \$239 is smaller, so it's set as the smallest

Scan down the array; start at the top, set \$307 as the smallest

Algorithm

It's a set of steps to accomplish a task.

What is an algorithm?

- 1) Get bread
- 2) Add cheese
- 3) Grill!

to sort this array by price (low-high)

Let's think about a possible algorithm

This series of items is an array

Let's say we have plane ticket prices to Orlando, since you're going to Disney World!

Let's try it!

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In computer science, an algorithm is a set of steps for a computer program to accomplish a task!

consider how you use a computer to write a report.

- Search engine for info
 - Spell check
- These use algorithms!

needed to analyze data!

algorithms are sciences, efficient

across all the

based on their:

What Algorithm should you use?

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Real-Life Examples

How does Google maps find the fastest route—route finding algorithm

Even Instagram uses an algorithm to dictate the order posts appear on your feed