

Team: _____

Team Members:

_____	_____
_____	_____
_____	_____

1 Writing a Sorting Algorithm

Come up with an algorithm to sort a deck of cards into order. The order we will use is the following:

1. \diamond 2 through Ace
2. \clubsuit 2 through Ace
3. \heartsuit 2 through Ace
4. \spadesuit 2 through Ace

So when we are finished sorting, the top card should be the 2 of diamonds, and the bottom card should be the ace of spades.

When making the algorithm, you can assume that the person following it can tell which card of two is “higher”. So you don’t need to put instructions for that into the algorithm.

You can write the algorithm on the back of this page.

2 Following the Algorithm

Now exchange algorithms with another team. Teams 1 and 2 will exchange algorithms, as will teams 3 and 4, and teams 5 and 6.

Follow the other teams algorithm and see if you end up with the cards sorted or not. If you have any questions or suggestions for them, mark them on their page.

Hand back the algorithm when you are done.

3 Editing the Algorithm

Next, you should make any changes to your algorithm that are needed. If any part was unclear, you can explain it more. When you are done, write the algorithm up on the board.