Solution 1

33

leftIdx++;

Run Code

Our Solution(s)

```
Run Code
```

Your Solutions

Solution 1 Solution 2 Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   #include <vector>
   using namespace std;
 6 int quickselectHelper(vector<int> array, int startIdx, int endIdx,
                          int position);
   // Best: O(n) time | O(1) space
10 // Average: O(n) time | O(1) space
11 // Worst: O(n^2) time | O(1) space
12 int quickselect(vector<int> array, int k) {
13
     int position = k - 1;
14
     return quickselectHelper(array, 0, array.size() - 1, position);
15 }
16
17
   int quickselectHelper(vector<int> array, int startIdx, int endIdx,
18
                          int position) {
19
     while (true) {
20
       if (startIdx > endIdx) {
21
         perror("Your Algorithm should never arrive here!");
          exit(1);
24
       int pivotIdx = startIdx;
       int leftIdx = startIdx + 1;
26
        int rightIdx = endIdx;
27
        while (leftIdx <= rightIdx) {</pre>
28
         if (array[leftIdx] > array[pivotIdx] &&
29
             array[rightIdx] < array[pivotIdx]) {</pre>
30
            swap(array[leftIdx], array[rightIdx]);
31
          if (array[leftIdx] <= array[pivotIdx]) {</pre>
```

```
#include <vector>
using namespace std;

int quickselect(vector<int> array, int k) {
    // Write your code here.
    return -1;
}
```

 Our Tests
 Custom Output
 Submit Code

Run or submit code when you're ready.

Section Class See F. Co. I.

marriage restricted (Mr. M., Mr., E. - Mr.