```
1: #include<stdio.h>
 2:
 3: void printArray(int* A, int n){
        for (int i = 0; i < n; i++)
 4:
 5:
        {
            printf("%d ", A[i]);
 6:
 7:
        printf("\n");
 8:
 9: }
10:
11: void selectionSort(int *A, int n){
12:
        int indexOfMin, temp;
        printf("Running Selection sort...\n");
13:
        for (int i = 0; i < n-1; i++)
14:
15:
        {
16:
            indexOfMin = i;
            for (int j = i+1; j < n; j++)
17:
18:
            {
19:
                 if(A[j] < A[indexOfMin]){</pre>
20:
                     indexOfMin = j;
                 }
21:
            }
22:
            // Swap A[i] and A[indexOfMin]
23:
24:
            temp = A[i]:
25:
            A[i] = A[indexOfMin];
26:
            A[indexOfMin] = temp;
27:
        }
28: }
29:
30: int main(){
        // Input Array (There will be total n-1 passes. 5-1 = 4 in t
31:
32:
        // 00 01 02 03
                            04
33:
        // |03, 05, 02, 13, 12
34:
35:
        // After first pass
        // 00 01 02 03
36:
        // 02, | 05, 03, 13, 12
37:
38:
39:
        // After second pass
```

```
// 00 01 02 03 04
40:
41:
       // 02, 03, 05, 13, 12
42:
       // After third pass
43:
44:
       // 00 01 02 03 04
45:
       // 02, 03, 05, 13, 12
46:
       // After fourth pass
47:
       // 00 01 02 03 04
48:
49:
       // 02, 03, 05, 12, 13
50:
51:
52:
        int A[] = {3, 5, 2, 13, 12};
53:
        int n = 5;
54:
        printArray(A, n);
55:
        selectionSort(A, n);
56:
        printArray(A, n);
57:
58:
        return 0;
59: }
60:
```