```
// 8.9
     #include <stdio.h>
 2
 3
 4
     int main(void)
 5
         int A[1001], n, i, k, mi, temp;
 6
7
8
         // input
9
         printf("Enter the number of elements: ");
10
         scanf("%d", &n);
11
12
         printf("Enter all elements:\n");
         for(i=0; i < n; ++i){
    scanf("%d", &A[i] );</pre>
13
14
15
16
         // selection sort
17
18
         for(i = n-1; i > 0; --i){
             `mi = i;
19
             for(k=i-1; k >= 0; --k){
20
                  if( A[mi] < A[k] ) mi = k;
21
22
23
24
             if( mi != i ){ // swapping
25
                  temp = A[i];
26
                  A[i] = A[mi];
27
                  A[mi] = temp;
28
             }
         }
29
30
31
         // output sorted element
32
         printf("Sorted Array\n");
         for(i=0; i < n; ++i) printf("%d ", A[i] );</pre>
33
34
         printf("\n");
35
         return 0;
36
37
     }
38
```