

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int n;
void selection(int a[], int n)
{
    int min, i, j, t;
    for(i=0; i<n-2; i++)
    {
        min = i;
        for(j=i+1; j<n; j++)
        {
            if(a[j] < a[min])
                min = j;
        }
        t = a[i];
        a[i] = a[min];
        a[min] = t;
    }
}
```

```
int main()
{
    int i;
    double st;
    clock_t start, end;
    printf("Enter the number of elements of the array (n):");
    scanf("%d", &n);
    int array[n], array1[n];
    for(i=0; i<n; i++)
    {
        array[i] = rand() % 2000;
        array1[i] = array[i];
        printf("%d", array[i]);
    }
}
```

②

```
printf("\n");
start = clock();
selection(array1, n);
end = clock();
st = ((double)(end - start)) / CLOCKS_PER_SEC;
printf("Sorted array is:");
for (i = 0; i < n; i++)
{
    printf("%d", array1[i]);
}
printf("\n");
printf("\n Time taken by selection sort: %.2f \n", st);
printf("\n");
return 0;
}
```