Selection Sort in C

```
#include<stdio.h>
#include <time.h>
void selection_sort(int, int[]);
void main()
{
int i,n,a[10];
printf("Enter size:\n");
scanf("%d",&n);
printf("Enter array elements:\n");
for(i=0;i< n;i++)
  scanf("%d",&a[i]);
selection_sort(n,a);
}
void selection_sort(int n, int a[])
{
  clock_t start_t, end_t, total_t;
  start_t = clock();
  printf("Starting of the function, start_t = %Id\n", start_t);
  int i, j, min;
  for (i = 0; i < n-1; i++)
  {
     min = i;
     for (j = i+1; j < n; j++)
      if (a[j] < a[min])
        min = j;
     if(min!=i)
     {
      int t=a[min];
      a[min]=a[i];
      a[i]=t;
      }
```

```
}
 printf("\nIn ascending order:");
 for(i=0;i< n;i++)
  printf("%d\t",a[i]);
 end_t = clock();
 printf("\nEnd of the function, end_t = %Id\n", end_t);
 total_t = (double)(end_t - start_t) / CLOCKS_PER_SEC;
 printf("Total time taken by CPU: %d\n", total_t );
 printf("Exiting of the program...\n");
Output:
Enter size:
4
Enter array elements:
5274
Starting of the function, start_t = 11250
In ascending order:2 4
                             5
                                  7
End of the function, end_t = 11250
Total time taken by CPU: 0
Exiting of the program...
```