main.c

```c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main()
{
int a[10],i,n=10,min,temp=0,c,l=0;
printf("<------SELECTION SORT----->\n");
 printf("Genrating random nos.:\n");
 srand(time(0));

  for (c = 0; c < n; c++)
  {
    a[c]=rand()%100 +1;
    printf("%d\n",a[c]);
  }
  clock_t begin = clock();
for(i=0;i<n;i++)
 {  min=i;
     for(int j=i+1;j<=n;j++)
     {
         if(a[j]<a[min])
         min=j;
     }
    temp=a[i];
    a[i]=a[min];
    a[min]=temp;
 }
```

```c
 srand(time(0));

  for (c = 0; c < n; c++)
  {
    a[c]=rand()%100 +1;
    printf("%d\n",a[c]);
  }
  clock_t begin = clock();
for(i=0;i<n;i++)
 {  min=i;
     for(int j=i+1;j<=n;j++)
     {
         if(a[j]<a[min])
         min=j;
     }
    temp=a[i];
    a[i]=a[min];
    a[min]=temp;
 }
printf("Sorted Array:\n");
for(i = 0; i < n; i++)
printf("%d\n", a[i]);
clock_t end = clock();
  double time_spent = (double)(end - begin) / CLOCKS_PER_SEC;
  printf("\n\nEXECUTION TIME : %.10fseconds\n", time_spent);

return 0;
}
```

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main.c

```
10   srand(time(0));
11
12    for (c = 0; c < n; c++)
13    {
14      a[c]=rand()%100 +1;
```

```
<------SELECTION SORT----->
Genrating random nos.:
51
72
16
30
20
100
42
99
15
34
Sorted Array:
0
15
16
20
30
34
42
51
72
99


EXECUTION TIME : 0.0000260000seconds


...Program finished with exit code 0
Press ENTER to exit console.
```