

```

#include <stdio.h>
#include <stdlib.h>
#include <time.h>
//SELECTION
int main() {
    clock_t start_t, end_t, total_t;
    printf("ENTER NUBMER OF ELEMENTS \t");
    int n;
    scanf("%d",&n);
    int a[n];
    int i,j,flag,temp;
    flag=1;
    for(i=0;i<n;i++) {
        a[i] = (rand()%n*10) +1;
    }
    start_t = clock();
    int swapCount=0;

    for (i = 0; i < n-1; i++)
    {
        int iMin = i;
        for (j = i+1; j < n; j++) {
            if (a[j] < a[iMin]) {
                iMin = j;
            }
        }
        if(iMin != i)
        {
            temp = a[iMin];
            a[iMin]=a[j];
            a[j]=temp;
            swapCount++;
        }
    }

    end_t = clock();
    for(i=0;i<n;i++) {
        printf("%d \n",a[i]);
    }
    printf("Total Swapped in Selection: %d \n",swapCount++);
    total_t = ((double)(end_t - start_t) / CLOCKS_PER_SEC)*CLOCKS_PER_SEC;
    printf("Total time taken by CPU: %f\n", (double)total_t/(double)CLOCKS_PER_SEC
);
}

```