

SELECTION SORT

```
#include <stdio.h>
```

```
void printArray(int a[], int n)
```

```
{  
    for (int i=0; i<n; i++)  
    {  
        printf("%d\t", a[i]);  
    }  
}
```

```
void selection(int a[], int n)
```

```
{  
    int i, j, minx, minj;  
    for (i=1; i<n; i++)  
    {  
        minj = i;  
        minx = a[i];  
  
        for(j=i+1; j<n; j++)  
        {  
            if(a[j]<minx)  
            {  
                minj = j;  
                minx= a[j];  
            }  
        }  
    }  
}
```

```
        a[minj] = a[i];  
        a[i] = minx;  
    }  
}
```

```
void main()  
{  
    int n;  
    printf("\n Enter no. of elemnts : ");  
    scanf("%d", &n);  
  
    int a[n];  
    printf("\n Enter %d elements of array :", n);  
    for (int i=0; i<n; i++)  
    {  
        scanf("%d", &a[i]);  
    }  
  
    printf("\n Original Array \n");  
    printArray(a,n);  
  
    selection(a,n);  
  
    printf("\n Sorted array \n");  
    printArray(a,n);  
}
```

OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  TRUFFLE  POSTMAN CONSOLE

Enter no. of elemnts : 6

Enter 6 elements of array :2
5
4
3
7
8

Original Array
2      5      4      3      7      8
Sorted array
2      3      4      5      7      8
c:\Users\student\Documents\S2-45 Pranjal>
```