

```
/****** Program to Sort an Array using Selection Sort *****/
```

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

```
void selection_sort();
```

```
int a[50], n;
```

```
main()
```

```
{
```

```
    int i;
```

```
    printf("\nEnter size of an array: ");
```

```
    scanf("%d", &n);
```

```
    printf("\nEnter elements of an array:\n");
```

```
    for(i=0; i<n; i++)
```

```
        scanf("%d", &a[i]);
```

```
    selection_sort();
```

```
    printf("\n\nAfter sorting:\n");
```

```
    for(i=0; i<n; i++)
```

```
        printf("\n%d", a[i]);
```

```
    getch();
```

```
}
```

```
void selection_sort()
```

```
{
```

```
    int i, j, min, temp;
```

```
    for (i=0; i<n; i++)
```

```
    {
```

```
        min = i;
```

```
        for (j=i+1; j<n; j++)
```

```
        {
```

```
            if (a[j] < a[min])
```

```
                min = j;
```

```
        }
```

```
        temp = a[i];
```

```
        a[i] = a[min];
```

```
        a[min] = temp;
```

```
    }
```

```
}
```