

3.) Selection Sort With Modification.

#include <stdio.h>

#include <time.h>

void sorting (int m[], int n, int k);
int main()

{ int n, i, k;

printf ("Please Enter number of elements: \n");

scanf ("%d", &n);

int m[n];

printf ("Enter the elements: \n");

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

{ scanf ("%d", &m[i]);

}

printf ("Enter the largest element position you want to find \n");

scanf ("%d", &k);

clock_t t;

t = clock();

sorting (m, n, k);

t = (clock()) - t;

double time_taken = ((double) t) / CLOCKS_PER_SEC;

printf ("Sort function takes %f seconds \n", time_taken);

}

void sorting (int m[], int n, int k)

{ int i, j, temp, pos, small;

for (i = 0; i < n - 1; i++)

{

}

}

Solved Problem Position
(BMIS210)

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

```
{
```

```
    small = m[i];
```

```
    pos = i;
```

```
    if (m[j] < small)
```

```
    {
```

```
        small = m[j];
```

```
        temp = m[i];
```

```
        m[i] = m[j];
```

```
        m[j] = temp;
```

```
        pos = j;
```

```
    }
```

```
}
```

```
printf ("Result : \n");
```

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

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

```
    }
```

```
printf ("The largest element is %d", m[n-k]);
```

```
}
```

[2 /

Please Enter number of elements :

3

Enter the elements :

666

6

66

Enter the largest element position you want to find

1

Result :

6

66

666

The largest element is 666Sort function takes 0.002000 seconds

Process returned 0 (0x0) execution time : 9.659 s

Press any key to continue.

```
Please Enter number of elements :  
3  
Enter the elements :  
666  
6  
66  
Enter the largest element position you want to find  
2  
Result :  
6  
66  
666  
The largest element is 66Sort function takes 0.001000 seconds  
  
Process returned 0 (0x0)   execution time : 21.359 s  
Press any key to continue.
```