Name: Jay Lapani

Roll No.: 21BCP150 Div: 3 G5

## **Selection Sort**

```
#include <iostream>
using namespace std;
int selectionsort(int a[], int b)
{
  int z;
  int m=INT_MAX;
  int s=0;
  for (int i = 0; i < b; i++)
  {
    for (int j = i; j < b; j++)
    {
       if (a[j] < m)
       {
         S++;
         m = a[j];
         z = j;
       }
    }
    m = INT_MAX;
    int t = a[i];
```

```
a[i] = a[z];
    a[z] = t;
  }
  return s;
}
int main()
{
  int a[] = \{3,4,5,2,6,1\};
  int n = sizeof(a) / sizeof(int);
  int s = selectionsort(a, n);
  for (int i = 0; i < n; i++)
    cout<<a[i]<<" ";
  }
  cout<<endl<<s;
}
/*
output
best case\{1,2,3,4,5,6\} --> comp = 6 times
average case{3,4,5,2,6,1} --> comp = 12 times
worst case{6,5,4,3,2,1} --> comp = 15 times
```