//Bubble sort

#include<iostream>

#include<windows.h>

using namespace std;

int main()

{

int a[5]={8,9,2,5,4};

//int b[5]={5,7,3,9,1};

int temp,pos;

char c;

cout<<"\t\t\tBubble sort : \n\n";

do

{

cout<<"before sorted : \n";

for(int i=0;i<5;i++)

{

cout<<"a [ "<<i<<" ] = "<<a[i]<<endl;

}

cout<<"Enter 1-ascending\n2-descending\n3-selection sort : \n";

cin>>temp;

switch(temp)

{

case 1:

cout<<"\nAscending order : \n";

for(int i=0;i<4;i++)

{

for(int j=0;j<4;j++)

{

if(a[j]>a[j+1])

{

temp=a[j];

a[j]=a[j+1];

a[j+1]=temp;

}

}

}

for(int i=0;i<5;i++)

{

cout<<"a [ "<<i<<" ] = "<<a[i]<<endl;

}

break;

case 2:

cout<<"\nDescending order : \n";

for(int i=0;i<4;i++)

{

for(int j=0;j<4;j++)

{

if(a[j]<a[j+1])

{

temp=a[j];

a[j]=a[j+1];

a[j+1]=temp;

}

}

}

for(int i=0;i<5;i++)

{

cout<<"a [ "<<i<<" ] = "<<a[i]<<endl;

}

break;

case 3:

//----------------------------

for(int i=0;i<4;i++)

{

pos=i;

for(int j=i+1;j<5;j++)

{

if(a[pos]>a[j])

{

pos=j;

}

}

if(pos!=i)

{

temp=a[i];

a[i]=a[pos];

a[pos]=temp;

}

}

cout<<"\nafter selection sort : \n";

for(int i=0;i<5;i++)

{

cout<<"a [ "<<i<<" ] = "<<a[i]<<endl;

}

break;

}//switch end

cout<<"do agian (y/n): ";

cin>>c;

system("cls");

}//while loop end

while(c=='y');

system("pause");

return 0;

}