#include<iostream>

using namespace std;

class matrix

{

unsigned short int size;

int table[10][0];

void process

{

int table1[10][10], flag=0;

// transpose

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

{

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

table1[i][j]= table[j][i];

}

// symmetric or not

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

{

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

{

if(table1[i][j]!= table[i][j])

{

flag = 1;

break;

}

}

}

if(flag==0)

cout<<"it is symmetric ";

else

cout<<"it is not symmetric ";

}

public:

matrix()

{

cout<<"enter size";

cin>>size;

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

{

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

cin>>table[i][j];

}

process();

}

};

int main()

{

matrix m;

}

Binary

#include<iostream>

using namespace std;

#include<string.h>

class binary

{

short int list[30];

short int N;

void search(int ele)

{

int flag=0;

int mid, low=0,high=(N-1);

while(high>=low)

{

mid=(high+low)/2;

if(list[mid]==ele)

{

cout<<"element is at "<<mid+1<<"position";

flag=1;

break;

}

if(list[mid]>ele)

{

low=mid+1;

}

if(list[mid]<ele)

{

high=mid-1;

}

}

if(flag==0)

cout<<"ele not found";

}

public:

binary()

{

int ele;

cout<<"Enter the number of elements";

cin>>N;

cout<<"Enter the elements(sorted array)";

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

{

cin>>list[i];

}

cout<<"Enter element to be searched";

cin>>ele;

search(ele);

}

};

int main()

{

binary b;

}

Sum of cos series

#include<iostream>

#include<math.h>

using namespace std;

class series

{

unsigned short int n;

float d;

int fact(int num)

{

int f=1;

for(int i = 1 ; i <=num ; i++)

f= f\*i;

return f;

}

public:

series ()

{

float sum =1, x;

int j=-1;

cout<<"enter d and n";

cin>>d>>n;

x= d\* (3.14/180);

for(int i =2; i<=2\*n ; i=i+2)

{

sum = sum + (j)\*(pow(x, i )/fact(i));

j=-j;

}

cout<<"the sum is "<<sum;

}

};

int main()

{

series s;

}