**Find power of a number**

Write a program to find x to the power n (i.e. x^n). Take x and n from the user. You need to print the answer

#include<iostream>

#include<cmath>

using namespace std;

int main() {

int n,k,answer=1,i=0,j,lenght;

cin>>n>>k;

lenght=log(n)+1;

int\* b= new int[lenght];

while(k!=0)

{

b[i++]=k%2;

k=k/2;

}

for(j=i;j>=0;j--)

{

if(b[j]==1)

{

answer=answer\*answer\*n;

}

else

answer = answer\*answer;

}

cout<<answer;

}