SOURCE CODE

#include<bits/stdc++.h>

using namespace std;

void multiply(int x, vector<int>&temp)

{

int carry = 0;

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

{

int product = temp[i] \* x + carry;

temp[i] = product % 10;

carry=product/10;

}

while(carry)

{

temp.push\_back(carry%10);

carry =carry/10;

}

}

vector<int>factorial(int N){

vector<int>temp;

temp.push\_back(1);

int size=1;

for(int x=2;x<=N;x++)

multiply(x, temp);

reverse(temp.begin(),temp.end());

return temp;

}

int main()

{long long int t;

cout<<"Enter the bigger number whose factorial is to be calculated \n";

cin>>t;

vector<int> a;

a=factorial(t);

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

{

cout<<a[i];

}

return 0;

}