1.Write a C Program to Sort a stack using a temporary stack

#include <bits/stdc++.h>

using namespace std;

stack<int> sortStack(stack<int> &input)

{

stack<int> tmpStack;

while (!input.empty())

{

int tmp = input.top();

input.pop();

while (!tmpStack.empty() && tmpStack.top() > tmp)

{

input.push(tmpStack.top());

tmpStack.pop();

}

tmpStack.push(tmp);

}

return tmpStack;

}

int main()

{

stack<int> input;

input.push(34);

input.push(3);

input.push(31);

input.push(98);

input.push(92);

input.push(23);

stack<int> tmpStack = sortStack(input);

cout << "Sorted numbers are:\n";

while (!tmpStack.empty())

{

cout << tmpStack.top()<< " ";

tmpStack.pop();

}

}

**OUTPUT:**

