

INPUT/OUTPUT SKELETONS

Java

```
import java.io.*;
import java.*;
import java.util.Scanner;

public class Problem {

    public static void main(String[] args) throws Exception {

        // If you want to read from a file, uncomment this line.
        //System.setIn(new FileInputStream("path/to/file.txt"));

        Scanner sc = new Scanner(System.in);

        // Now read data and solve the problem.
        int n = Integer.parseInt(sc.nextLine());
        int m = Integer.parseInt(sc.nextLine());
        System.out.println(n + " nodes, " + m + " edges");

        while (sc.hasNextLine()) {
            int from = sc.nextInt();
            int to = sc.nextInt();
            System.out.println(from + "-->" + to);
        }

        sc.close();
    }
}
```

Python

```
1 import sys
2
3 # choose one
4 # f = open('path/to/file.txt', 'r')
5 f = sys.stdin
6
7 n = int(f.readline())
8 m = int(f.readline())
9
10 print(f"{n}, {m}")
11
12 for line in f:
13     strings = line.split()
14     frm, to = [int(x) for x in strings]
15     print(f"{frm} --> {to}")
16
17 f.close()
```

C++

Read from stdin:

```

#include <iostream>
#include <string>

using namespace std;

int main() {
    int n, m;
    cin >> n >> m;
    cout << n << ", " << m << '\n';

    // See also: std::getline(cin, stringvariable)
    while (!cin.eof()) {
        int from, to;
        cin >> from >> to;
        cout << from << " --> " << to << '\n';
    }
}

```

Read from a file (same thing but uses an ifstream instead of cin):

```

#include <iostream>
#include <fstream>
#include <string>

using namespace std;

int main() {
    int n, m;
    ifstream is("path/to/file");
    is >> n >> m;
    cout << n << ", " << m << '\n';

    // See also: std::getline(is, stringvariable)
    while (!is.eof()) {
        int from, to;
        is >> from >> to;
        cout << from << " --> " << to << '\n';
    }
}

```

C++ (C style)

```

#include <cstdio>
#include <string>
#include <cassert>

using namespace std;

int main() {
    int n, m;

    /// Choose one:

```

```
FILE *input = stdin;
// FILE *input = fopen("path/to/file", "r");

assert(input != NULL);

fscanf(input, "%i\n%i\n", &n, &m);
printf("%i, %i\n", n, m);

int from, to;
while(fscanf(input, "%i %i\n", &from, &to) != EOF) {
    printf("%i --> %i\n", from, to);
}

fclose(input);
}
```