ASSIGNMENT-1

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Batch - 19

Assignment 1: Maximum Non-Overlapping Meetings (Greedy)

Problem Statement

You are given N meetings. Each meeting has a start time Si and an end time Ei. You want to attend the maximum number of meetings. You can attend meeting j after meeting i only if the start time of meeting j is strictly greater than the end time of meeting i (Sj > Ei). For each test case, output the maximum number of meetings that can be attended.

Input Format

The first line contains an integer T, the number of test cases.For each test case:

- The first line contains an integer N.
- The next N lines each contain two integers Si and Ei.

Output Format: For each test case, print a single integer: the maximum number of meetings that can be attended. Constraints

- $1 \leq T \leq 20$
- $1 \leq N \leq 200000$ (sum of N over all test cases ≤ 200000)
- $0 \leq Si < Ei \leq 10^9$

Sample Input

1

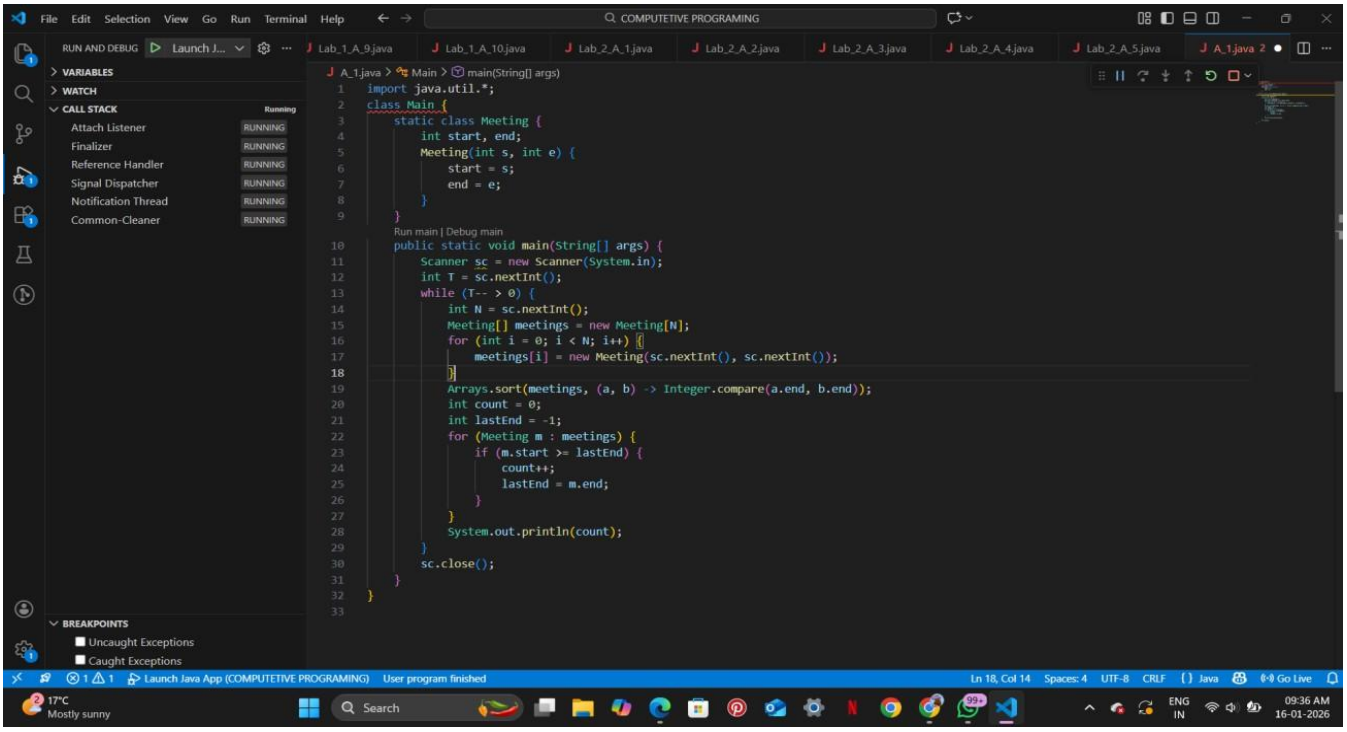
3

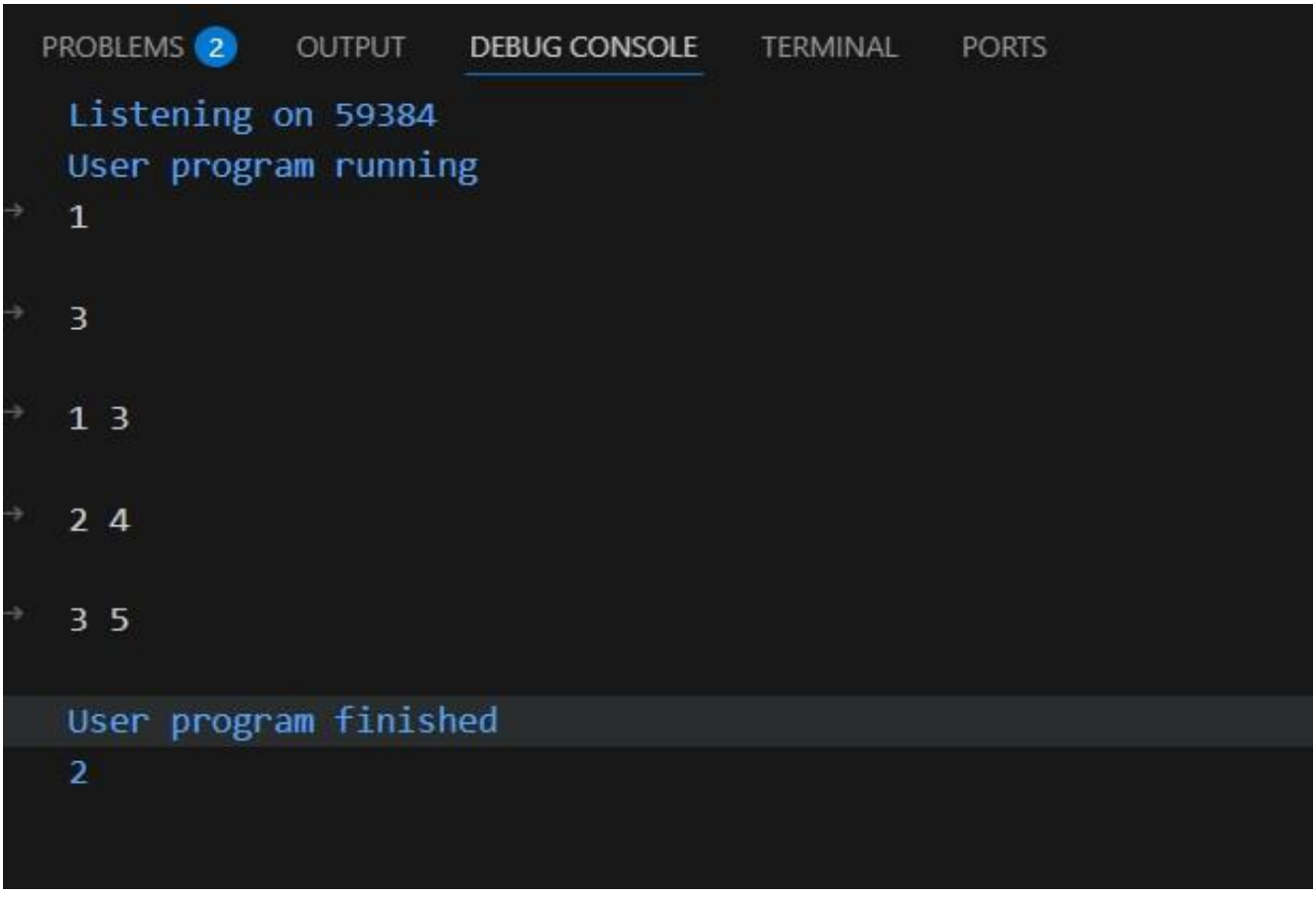
1 3

2 4

3 5

Expected Output 2


File Edit Selection View Go Run Terminal Help
COMPUTETIVE PROGRAMING
RUN AND DEBUG
Launch J...
Lab_1_A_9.java
Lab_1_A_10.java
Lab_2_A_1.java
Lab_2_A_2.java
Lab_2_A_3.java
Lab_2_A_4.java
Lab_2_A_5.java
A_1.java 2
VARIABLES
WATCH
CALL STACK
Running
Attach Listener RUNNING
Finalizer RUNNING
Reference Handler RUNNING
Signal Dispatcher RUNNING
Notification Thread RUNNING
Common-Cleaner RUNNING
BREAKPOINTS
Uncaught Exceptions
Caught Exceptions
A_1.java > Main > main(String[] args)
import java.util.*;
class Main {
static class Meeting {
int start, end;
Meeting(int s, int e) {
start = s;
end = e;
}
}
Run main | Debug main
public static void main(String[] args) {
Scanner sc = new Scanner(System.in);
int T = sc.nextInt();
while (T-- > 0) {
int N = sc.nextInt();
Meeting[] meetings = new Meeting[N];
for (int i = 0; i < N; i++) {
meetings[i] = new Meeting(sc.nextInt(), sc.nextInt());
}
Arrays.sort(meetings, (a, b) -> Integer.compare(a.end, b.end));
int count = 0;
int lastEnd = -1;
for (Meeting m : meetings) {
if (m.start >= lastEnd) {
count++;
lastEnd = m.end;
}
}
System.out.println(count);
}
sc.close();
}
}
Launch Java App (COMPUTETIVE PROGRAMING)
User program finished
Ln 18, Col 14
Spaces: 4
UTF-8
CRLF
Java
Go Live
17°C
Mostly sunny
Search
ENG
IN
09:36 AM
16-01-2026


PROBLEMS 2
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Listening on 59384
User program running
1
3
1 3
2 4
3 5
User program finished
2