

Competitive Programming

Week-1 Assignment-1

Assignment 1: Maximum Non-Overlapping Meetings (Greedy)

Code:

```
import java.util.*;

public class Main

{
    public static void main(String[] args)

    {
        Scanner sc=new Scanner(System.in);

        int test=sc.nextInt();

        for(int t=0;t<test;t++)

        {
            int n=sc.nextInt();

            int s[]={};

            int e[]={};

            for(int i=0;i<n;i++)

            {
                s[i]=sc.nextInt();

                e[i]=sc.nextInt();
            }

            for(int i=0;i<n;i++)

            {
                for(int j=i+1;j<n;j++)
            {

```

```
if(e[i]>e[j])
{
    int temp=e[i];
    e[i]=e[j];
    e[j]=temp;

    int t1=s[i];
    s[i]=s[j];
    s[j]=t1;
}

}

int c=1;
int lastEnd=e[0];
for(int i=1;i<n;i++)
{
    if(s[i]>=lastEnd)
    {
        c++;
        lastEnd=e[i];
    }
}

System.out.println(c);
}
}
```

The screenshot shows the OnlineGDB Java compiler interface. The code in the editor is:

```
1 import java.util.*;
2 public class Main
3 {
4     public static void main(String[] args)
5     {
6         Scanner sc=new Scanner(System.in);
7         int test=sc.nextInt();
8         for(int t=0;t<test;t++)
9         {
10             int n=sc.nextInt();
11             int s[]=new int[n];
12             int e[]=new int[n];
13             for(int i=0;i<n;i++)
14             {
15                 s[i]=sc.nextInt();
16                 e[i]=sc.nextInt();
17             }
18             for(int i=0;i<n;i++)
19             {
20                 for(int j=i+1;j<n;j++)
21                 {
22                     if(e[i]>e[j])
23                     {
24                         int temp=e[i];
25                         e[i]=e[j];
26                         e[j]=temp;
27                         int t1=s[i];
28                         s[i]=s[j];
29                         s[j]=t1;
30                     }
31                 }
32             }
33             int c=1;
34             int lastEnd=e[0];
35             for(int i=1;i<n;i++)
36             {
37                 if(s[i]>lastEnd)
38                 {
39                     c++;
40                     lastEnd=e[i];
41                 }
42             }
43             System.out.println(c);
44         }
45     }
46 }
47
48 }
```

The status bar at the bottom shows: ENG IN 28-01-2026 12:02

The screenshot shows the OnlineGDB Java compiler interface with the same code as above. The output window displays the results of the program execution:

```
input
1
3
2
4
3
5
2
...Program finished with exit code 0
```

The status bar at the bottom shows: ENG IN 28-01-2026 12:02