

```

import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int n = sc.nextInt();    // number of activities
        int[][] a = new int[n][2];    // array to hold start and end times

        for (int i = 0; i < n; i++) {
            a[i][0] = sc.nextInt();    // start time
            a[i][1] = sc.nextInt();    // end time
        }

        // Manual selection sort by end time (a[i][1])
        for (int i = 0; i < n - 1; i++) {
            int minIdx = i;
            for (int j = i + 1; j < n; j++) {
                if (a[j][1] < a[minIdx][1]) {
                    minIdx = j;
                }
            }
            // Swap start and end times
            int tempStart = a[i][0];
            int tempEnd = a[i][1];
            a[i][0] = a[minIdx][0];
            a[i][1] = a[minIdx][1];
            a[minIdx][0] = tempStart;
            a[minIdx][1] = tempEnd;
        }
    }
}

```

```
int count = 1;    // select first activity
int lastEndTime = a[0][1];

for (int i = 1; i < n; i++) {
    if (a[i][0] >= lastEndTime) {
        count++;
        lastEndTime = a[i][1];
    }
}

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