Testcase 1 :

Input:

There is 1 long interval job and 6 short interval job in this test case.

```
7 2
1 2
3 4
5 6
7 8
1 8
2 4
5 6
```

Output:

For 2 machines and 5 jobs are scheduled.

```
5
1 2 3 4
5
```

Testcase 2:

Input:

There are 3 jobs of the same interval and one of them is overlapping the other two jobs.

```
3 2
1 3
5 7
2 5
```

Output:

For 2 machines 3 jobs are selected first machine schedules 2 jobs and other the overlapping job.

```
3
1 2
3
```

Testcase 3:

Input:
The input has 12 jobs and few jobs have the same start time and finish time. This case is an edge case as there are multiple jobs with the same start and finish time.

```
12 2
1 3
5 7
8 10
11 13
14 16
2 4
2 4
2 4
6 9
12 15
12 15
12 15
```

Output:
For 2 machines the algorithm chooses 8 jobs optimally.

```
8
1 2 3 4 5
6 9 10
```

Testcase 4:
The input has 12 jobs and few jobs have the same start time and finish time. And few jobs have the same finish time.

Input:

```
12 2
1 3
5 7
8 10
11 13
14 16
2 4
3 4
2 4
6 9
12 15
12 15
12 15
```

Output:

For 2 machines the algorithm chooses 9 jobs optimally.

```
9
1 7 2 3 4 5
6 9 10
```