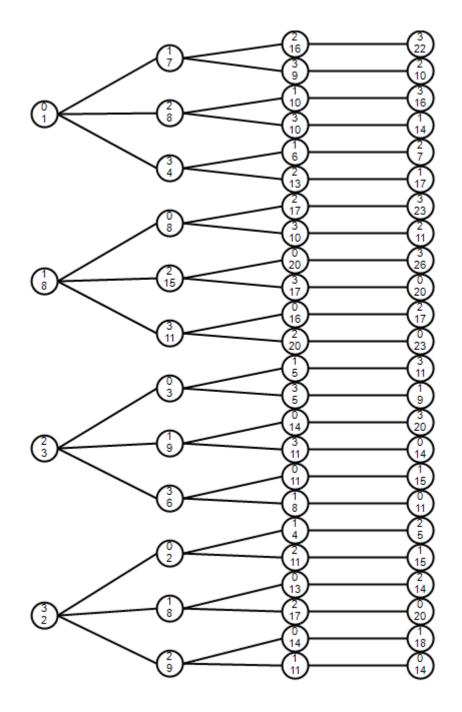
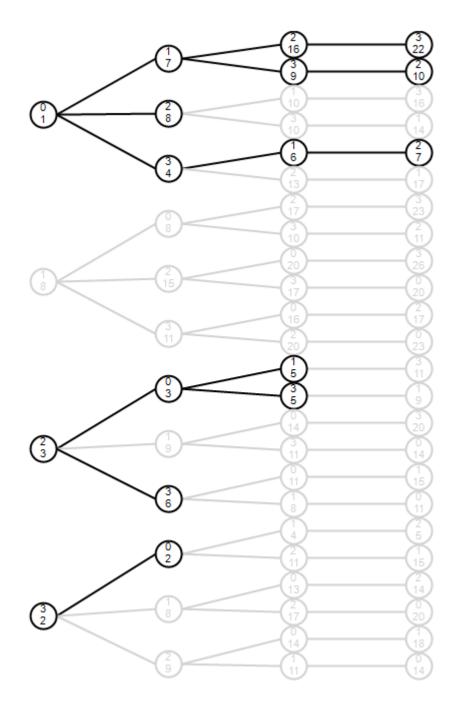
## Задача

- Дадени са n машини и n задачи, като за всяка двойка машиназадача е наблюдавана ефективността (времето за изпълнение).
  Да се направи програма, определяща разпределението машиназадача, така че общата ефективност да е максимална.
- Да се използва В&В подход.

	1	2	3	4
Α	9	2	7	5
В	10	4	3	7
С	5	8	1	8
D	7	6	9	4





```
public static void AssignmentBB(
int[][] effectiveness,
int worker,
int[] assignment,
int effectivenessAccumulated,
ref int effectivenessUpperBound)
if (worker == assignment.Length)
    if (effectivenessUpperBound > effectivenessAccumulated)
        effectivenessUpperBound = effectivenessAccumulated;
    return;
for (int j = 0; j < assignment.Length; j++)</pre>
    var assigned = false;
    for (int w = 0; w \leftarrow worker; w++)
        if(assignment[w] == j)
            assigned = true;
            break;
```

```
for (int j = 0; j < assignment.Length; j++)</pre>
var assigned = false;
for (int w = 0; w \le worker; w++)
    if(assignment[w] == j)
        assigned = true;
        break;
if (!assigned)
    assignment[worker] = j;
    var effectivenessNew =
        effectivenessAccumulated +
        effectiveness[j][worker];
    if (effectivenessNew >= effectivenessUpperBound)
        continue;
    AssignmentBB(
        effectiveness,
        worker + 1,
        assignment,
        effectivenessNew,
        ref effectivenessUpperBound);
    assignment[worker] = -1;
```