Analysis of Algorithms: Results of Assignment 7

```
                        X                       X
                        X                       X
number of               X                       X
homeworks               X                   X   X
                        X                   X   X
                        X           X X X X X
              X       X X       X X X X X X
              ------------------------------------
              0  1  2  3  4  5  6  7  8  9  10 11 12
                          grades
```
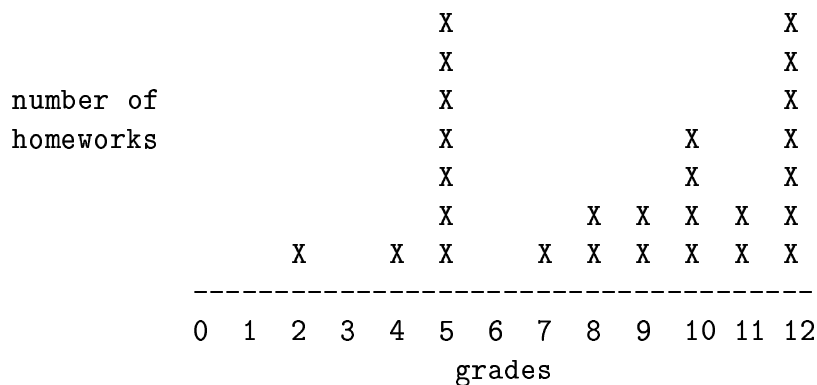
The histogram shows the distribution of grades for the homeworks submitted on time, *including* the early-submission bonus.

The output of the BFS and DFS algorithms depends on the order of vertices in the adjacency lists of the input graph. The following table shows *all* possible outputs of correctly implemented algorithms, for the graph given in the assignment.

```
    Correct BFS outputs     |    Correct DFS outputs
                            |
    1 2 4 8 3 5 7 9         |    1 2 3 5 9 4 7 8 6 10
                            |
    1 2 4 8 5 3 7 9         |    1 2 3 5 9 8 4 7 6 10
                            |
    1 2 8 4 3 5 7 9         |    1 2 5 9 3 4 7 8 6 10
                            |
    1 2 8 4 5 3 7 9         |    1 2 5 9 3 8 4 7 6 10
                            |
    1 4 2 8 7 3 5 9         |    1 4 7 8 2 3 5 9 6 10
                            |
    1 4 2 8 7 5 3 9         |    1 4 7 8 2 5 9 3 6 10
                            |
    1 4 8 2 7 3 5 9         |    1 8 4 7 2 3 5 9 6 10
                            |
    1 4 8 2 7 5 3 9         |    1 8 4 7 2 5 9 3 6 10
                            |
    1 8 2 4 3 5 7 9         |
                            |
    1 8 2 4 5 3 7 9         |
                            |
    1 8 4 2 7 3 5 9         |
                            |
    1 8 4 2 7 5 3 9         |
```