

## Limits and Evaluation Environment

Time limit for each problem is 2 seconds.

Memory limit for each problem is 512 mebibytes.

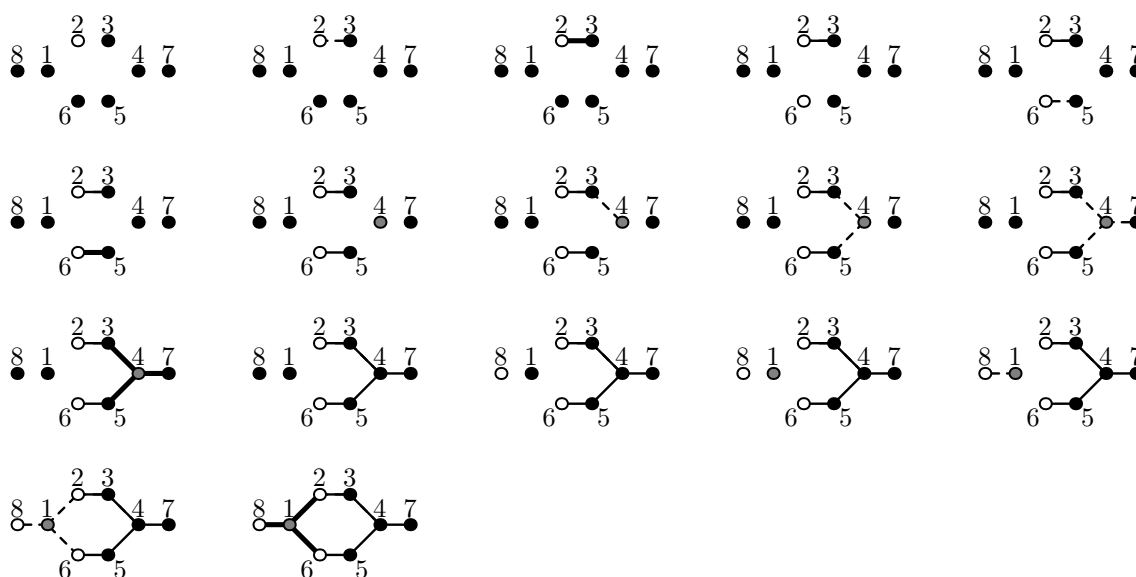
Source file size limit for each problem is 256 kibibytes.

Runs are evaluated on *AMD Phenom II 3.20GHz* computers under *Windows 7, Service Pack 1*.

## Errata and Clarifications for Problems

### Problem C. Cactus Construction

The picture with the visualization of the sample input uses three colors for vertices — black, gray, and white. Gray color is hard to discern on the problem statement printout, so it is included below for clarity



### Problem I. Indiana Jones and the Uniform Cave

The limits in the “Interaction” section shall be corrected in the following way

If Dr. Jones does not find the treasure room after  $[20\,000]_r^1$  passages are taken, he starves to death... Err(1)

The explanation for the sample output shall be corrected in the following way

Dr. Jones enters the example cave and sees that the stone in the first chamber is in the center. He marks the chamber by placing the stone to the left of some passage and takes  $[it]_r^2$ . He sees the chamber where the stone is to the left of the passage, so he is in the first chamber again. He [moves the stone clockwise] $_r^3$  and takes the passage marked by it. This passage leads to the second chamber. He marks it by placing the stone to the right of some passage and takes another one. He is in the first chamber again, so he returns to the second chamber and takes the remaining passage. This passage leads to the treasure.

Err(2)

Err(3)

<sup>1</sup>ERRATUM! limits changed (original text was: “10 000”)

<sup>2</sup>ERRATUM! corrected to correspond with the sample output (original text was: “another one”)

<sup>3</sup>ERRATUM! corrected to correspond with the sample output (original text was: “leaves the stone in place”)