

CS 110 – Creative Problem Solving
in Computer Science
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Homework 2

Instructor: Adriana Compagnoni

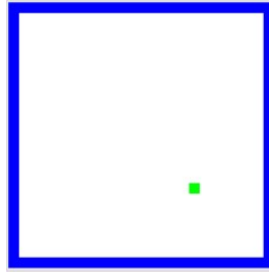
Due on Friday September 9, 2016 at 11:59PM

This homework is about Picobot. An online implementation can be found at: <http://www.cs.hmc.edu/picobot/>

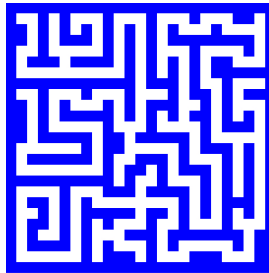
Assume Picobot is on the top-left corner of the map with no obstacles other than the side walls.

1. (10 points) Write a program that moves Picobot 2 steps North.
2. (10 points) Write a program that moves Picobot 4 steps west.
3. (10 points) Write a Picobot program that makes it move along a square of length 3.
4. (10 points) Modify the instruction of the previous exercise to make it move along the square in a infinite loop.

5. (30 points) Write a Picobot program that visits every square of the map at least once. Notice that Picobot can start in any position on the map.



6. (30 points) Write a Picobot program to visit every square in the following maze. Make sure Picobot can start from any square.



Grading rubric: Correct idea: 50%, correct solution 50%