HW 5 Hints

Contents

[1 MartianManager.getMartianClosestTo(int id) 2](#_Toc179793623)

[2 MartianManager.getMartianClosestTo(Martian martian) 2](#_Toc179793624)

# MartianManager.getMartianClosestTo(int id)

You want to loop over all the martians and compute the distance from each to the input *id,* remember the smallest distance. Thus, it is a minimization problem.

Hints:

1. To calculate the distance, you want to use: Math.abs(martian.getId() – id)
2. One approach is to keep track of the martian that is closest (the martian you will return) and the smallest distance.
3. You can initialize the smallest distance to: Integer.MAX\_VALUE and the closest martian to: null

# MartianManager.getMartianClosestTo(Martian martian)

Hint: Call the other *getMartianClosestTo* and pass the *id* of the input *martian* .