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Assignment 4 11/9/15

The getMaze method basically just check condition and store numbers, that is a straight forward thing, just do everything in order, check size, check data, store date, check exceptions. The part that needs thinking is the recursion part. Before the coding, I write most of the steps for finding A to B on paper to make sure that is the process of code I hope to, that give a guide to me when I do something wrong in code, I can find where I need to fix. I don’t really remember much about previous coding, but I remember I was trying to return a single path String value for each time returning in 3rd recursive method for final answer. But I had 2 problem with that way, first is I can’t stop the code after reaches End point, it will keep looking for different path when the code find B and return back to last recursive method. Second is I’m not sure how to make the String value of returning path to flip it’s return order, I had to make the return String after the getPath called, otherwise the Path of String representation will miss match with actual path. What I do to fix those are make it boolean as return value for 3rd method, so it can tell pervious call it find B, and stop processing. And add an ArrayList to store the right path values, and get values out in a back order by a loop. Also I feel is no need of unblock any path in code, because in any position after first move, you either able to find B, or not, if find B, will return the path, otherwise the path is bad, the code will and should never go the bad path again, so I feel no reason to unblock any path.

I test the program by using the test .java file in assignment 4 website and use a main method in the assignment code to see if the test file pass or the outputs in my code are expected. If anything that is out of expectation, I will do system.out to locate where the problem is and try to track why the problem occur by doing the process on paper, it is hard to determined what the problem is by just dealing with code in computer, since the recursion seems complicate.

The project is worth to think the way how recursion works and verify that thinking process.but personally, I don’t like recursion at all, I hope I will never doing it again.