Report

My purpose is to modify the terrain about the given input which contains a word and number -the word shows us its column because each word in the last row represents a column, and the number represents a row index- also to control whether there are any coordinates which can be money, if yes, to convert them a puddle. The last purpose is to calculate volume. I created 4 classes which are Variables, Displaying, ModifyingTerrain, and Main to achieve these purposes. A class named Variables stores variables such as input terrain, and it has some methods to create some variables. The initial method which reads the file and takes the number of terrain rows and columns, and the initial terrain is also in the Variables. A class named Displaying has 2 methods. One of them is “printingMatrix”. It prints the terrain to the console by finding the number of spaces that are before terrain values. The other one is “mainCode”. It calls all methods which are related to the algorithm, and the Main class calls this method to run the program. The last class ModifyingTerrain stores the algorithm method and its related methods, and it also stores a method that takes inputs from the user and modifies the terrain. The algorithm works recursively. In the beginning, some coordinates have a probability of being a puddle. They should be controlled whether they can be a puddle or not. To be a puddle, the value at a coordinate in the terrain should be smaller than its neighbor values. I took all the coordinates respectively and found their neighbors. After that, I found a min value by controlling its neighbors. This value will be the limit value for the puddle, and I compare the current value with this min value. If the current value is smaller than the min value, this coordinate can be a puddle, if not, it cannot be a puddle. If it is not a puddle coordinate, my recursive function changes the coordinate and continues. If it is a puddle coordinate, I need to control whether its neighbor coordinates can be a puddle with the same puddle name. I found these coordinates which can be a puddle, and I took all of them and tried as a current coordinate recursively until I reach that none of the neighbors cannot be a puddle. When I reach, if there remains a puddle name, I continued to change the current coordinate recursively and made all these again. Otherwise, I break the method. It is my break point. The last thing I did is calculating volume. I calculated volume by storing the min value of all puddles on the last terrain. I took the differences between a puddle name’ initial value and its min value. After that, I added all volumes and printed the sum.

Outputs from Given Examples

Note: All values are at the right place in the real output, but there are some indentation differences here because of the difference between upper case and lower case.

1. input.txt

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 3 3 3 3

4 3 1 2 3 1 2 3

5 3 3 3 3 3 3 3

6 3 3 3 3 3 3 2

a b c d e f g

1 / 10 to coordinate:

Input= d3

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 3

4 3 1 2 3 1 2 3

5 3 3 3 3 3 3 3

6 3 3 3 3 3 3 2

a b c d e f g

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2 / 10 to coordinate:

Input= d4

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 3

4 3 1 2 4 1 2 3

5 3 3 3 3 3 3 3

6 3 3 3 3 3 3 2

a b c d e f g

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3 / 10 to coordinate:

Input= d5

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 3

4 3 1 2 4 1 2 3

5 3 3 3 4 3 3 3

6 3 3 3 3 3 3 2

a b c d e f g

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4 / 10 to coordinate:

Input= e5

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 3

4 3 1 2 4 1 2 3

5 3 3 3 4 4 3 3

6 3 3 3 3 3 3 2

a b c d e f g

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5 / 10 to coordinate:

Input= f5

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 3

4 3 1 2 4 1 2 3

5 3 3 3 4 4 4 3

6 3 3 3 3 3 3 2

a b c d e f g

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6 / 10 to coordinate:

Input= g5

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 3

4 3 1 2 4 1 2 3

5 3 3 3 4 4 4 4

6 3 3 3 3 3 3 2

a b c d e f g

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7 / 10 to coordinate:

Input= g4

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1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 3

4 3 1 2 4 1 2 4

5 3 3 3 4 4 4 4

6 3 3 3 3 3 3 2

a b c d e f g

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8 / 10 to coordinate:

Input= g3

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1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 3 4

4 3 1 2 4 1 2 4

5 3 3 3 4 4 4 4

6 3 3 3 3 3 3 2

a b c d e f g

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9 / 10 to coordinate:

Input= f3

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 3 4 4

4 3 1 2 4 1 2 4

5 3 3 3 4 4 4 4

6 3 3 3 3 3 3 2

a b c d e f g

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10 / 10 to coordinate:

Input= e3

0 3 3 3 3 3 3 3

1 3 1 2 3 1 2 3

2 3 3 3 1 3 3 3

3 3 3 3 4 4 4 4

4 3 1 2 4 1 2 4

5 3 3 3 4 4 4 4

6 3 3 3 3 3 3 2

a b c d e f g

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0 3 3 3 3 3 3 3

1 3 A A 3 A A 3

2 3 3 3 A 3 3 3

3 3 3 3 4 4 4 4

4 3 B B 4 C C 4

5 3 3 3 4 4 4 4

6 3 3 3 3 3 3 2

a b c d e f g

Final score: 6,80

2. input2.txt

0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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77 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak

1 / 10 to coordinate:

Input = d3

0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

3 1 0 1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

5 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

7 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

9 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

11 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

13 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

15 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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19 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

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21 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

23 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

24 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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26 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

27 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

29 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

31 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

32 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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48 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

49 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

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54 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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56 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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58 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

59 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1

60 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak

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2 / 10 to coordinate:

Input = d4

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a b c d e f g h i j k l m n o p q r s t u v w x y z aa ab ac ad ae af ag ah ai aj ak

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Final score: 680,00

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2 3 3 3 2

a b c d

1 / 10 to coordinate:

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1 4 1 0 3

2 3 3 3 2

a b c d

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2 / 10 to coordinate:

Input= a1

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1 5 1 0 3

2 3 3 3 2

a b c d

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3 / 10 to coordinate:

Input= a2

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1 5 1 0 3

2 4 3 3 2

a b c d

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4 / 10 to coordinate:

Input= b0

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1 5 1 0 3

2 4 3 3 2

a b c d

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5 / 10 to coordinate:

Input= b1

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1 5 2 0 3

2 4 3 3 2

a b c d

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6 / 10 to coordinate:

Input= b2

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1 5 2 0 3

2 4 4 3 2

a b c d

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7 / 10 to coordinate:

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2 4 4 3 2

a b c d

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8 / 10 to coordinate:

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a b c d

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Input= d0

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10 / 10 to coordinate:

Input= d1

0 4 6 7 7

1 5 2 0 4

2 4 4 4 2

a b c d

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0 4 6 7 7

1 5 2 A 4

2 4 4 4 2

a b c d

Final score: 1,41