

Exercise

1

In a classroom of 100 students, the teacher recorded each student's score in `scores.txt` file. Write a program to compute the average score of this classroom.

In []: `# Your code here.`

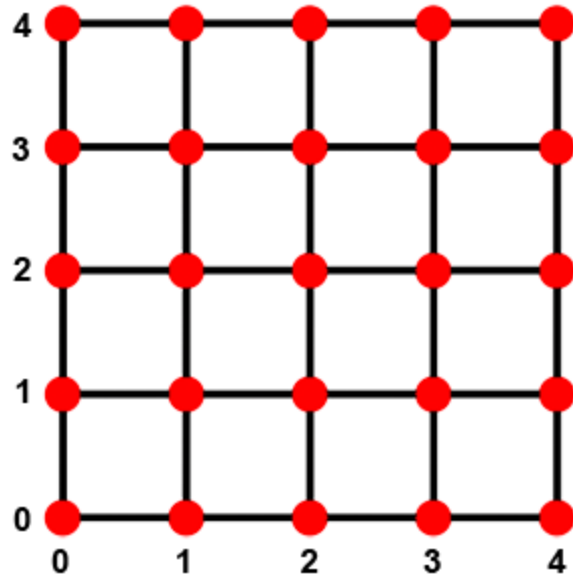
2

Write a program for gathering the best favorite dishes from customers. Save the results in `best_dishes.txt`.

In [7]: `# Your code here.`

3

The Super Robot Company uses the `.rob` file to control their robot's moving. Each line of this file contains a sequence of texts in the format `XN` where `X` indicates a moving direction in 2D-plane, which is one of the following:



- **U**: to move upward
- **D**: to move downward
- **L**: to move left
- **R**: to move right

and **N** is a positive integer saying how far a robot go in **X** direction.

For example, if the file `wall-e.rob` contained:

```
R3  
W2  
L1
```

we expected the following moveset: a robot would move right for 3 units, move upward for 2 units and then finally move left for 1 unit.

Assume that a robot starts at the origin $(0,0)$, write a program to compute where the robot will stop. Also compute the distance (from the origin) of the moveset.

In [9]: `# Your code here`
