# INFO6205 - Assignment01

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Referred from the website:

<https://mathworld.wolfram.com/RandomWalk2-Dimensional.html#:~:text=Amazingly%2C%20it%20has%20been%20proven,number%20of%20steps%20approaches%20infinity>,

we can know that the relationship between the number of steps m and the distance d is:

I implement 20 times experiments with 200 steps and 300 steps, and then output the distance corresponded to each number of steps into a line chart.

电脑萤幕的截图

描述已自动生成

It can be found from the chart that the relationship between d and m is relatively close to the relationship shown from the above formula.

Here is the screen shot for passing all unit tests:

电脑萤幕的截图

描述已自动生成