1. The conclusion about relationship between d and n:

func(d): $E(d^2)=n$

2. The evidence to support relationship:

Making 500 times experiments and find out that the mean value of sqrt of distance infinitely approach the number of steps (*RandomWalkProof.java*):

```
Run: RandomWalkProof ×

/Library/Java/Java/irtualRachines/jdk1.8.8_261.jdk/Contents/Home/bin/java ...

Isteps: mean value of sqrt of distance = 1.952

3steps: mean value of sqrt of distance = 3.064

4steps: mean value of sqrt of distance = 4.956

5steps: mean value of sqrt of distance = 4.956

5steps: mean value of sqrt of distance = 5.94

7steps: mean value of sqrt of distance = 7.956

8steps: mean value of sqrt of distance = 8.648

10steps: mean value of sqrt of distance = 10.224

11steps: mean value of sqrt of distance = 11.944

13steps: mean value of sqrt of distance = 11.944

13steps: mean value of sqrt of distance = 12.176

14steps: mean value of sqrt of distance = 15.152

16steps: mean value of sqrt of distance = 15.96

17steps: mean value of sqrt of distance = 17.88

18steps: mean value of sqrt of distance = 17.88

18steps: mean value of sqrt of distance = 18.888

20steps: mean value of sqrt of distance = 20.432

Process finished with exit code 0
```

- 3. I complete the code in RandomWalk.java and RandomWalkProof.java
- 4. Screen Shot of Unit Test:

```
| Project | Proj
```