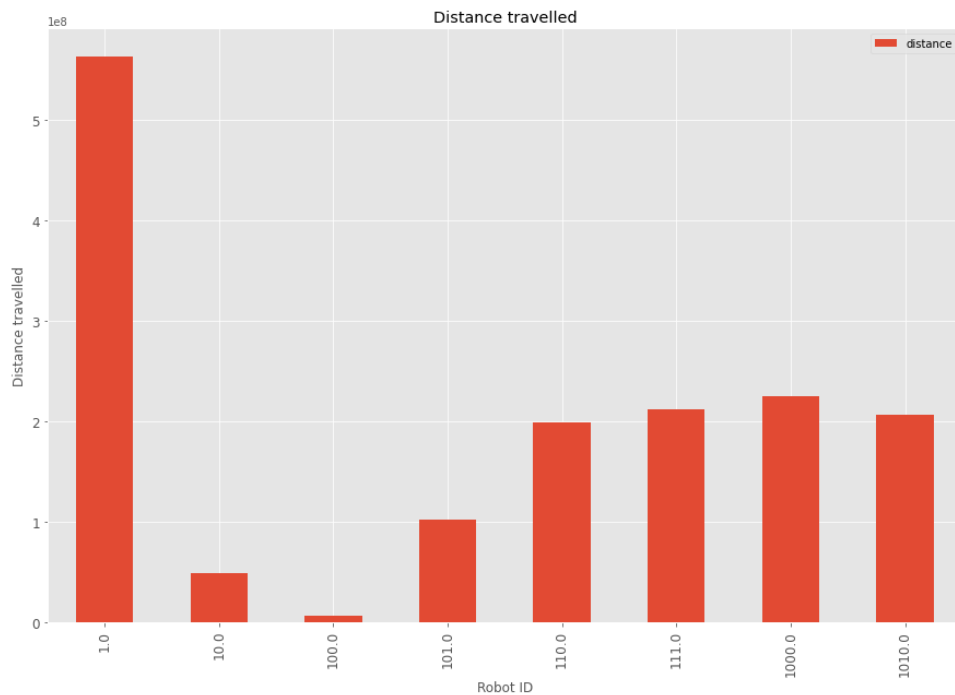


## B-VZXR Analysis

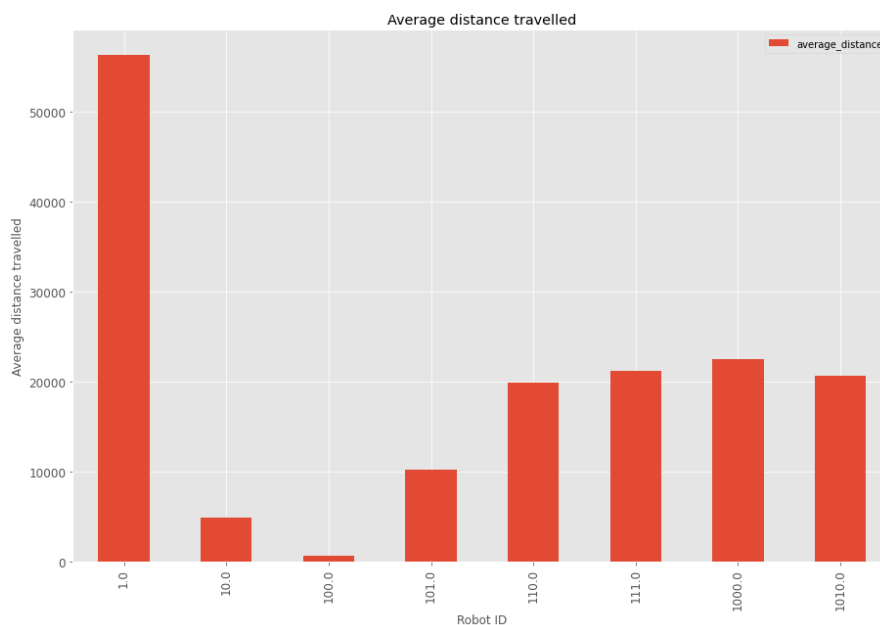
There are a total of 8 robots and 10,000 instructions for each. The instructions will lead the robots to move in the area enclosed by 4 walls, hitting walls on reaching the end of the area.

On aggregating the data, we can get the total distance travelled and the number of times robots hit the different walls. As the number of instructions is same for each robot (10000), the average distance per instruction and the total distance travelled by each robot have a similar relation.

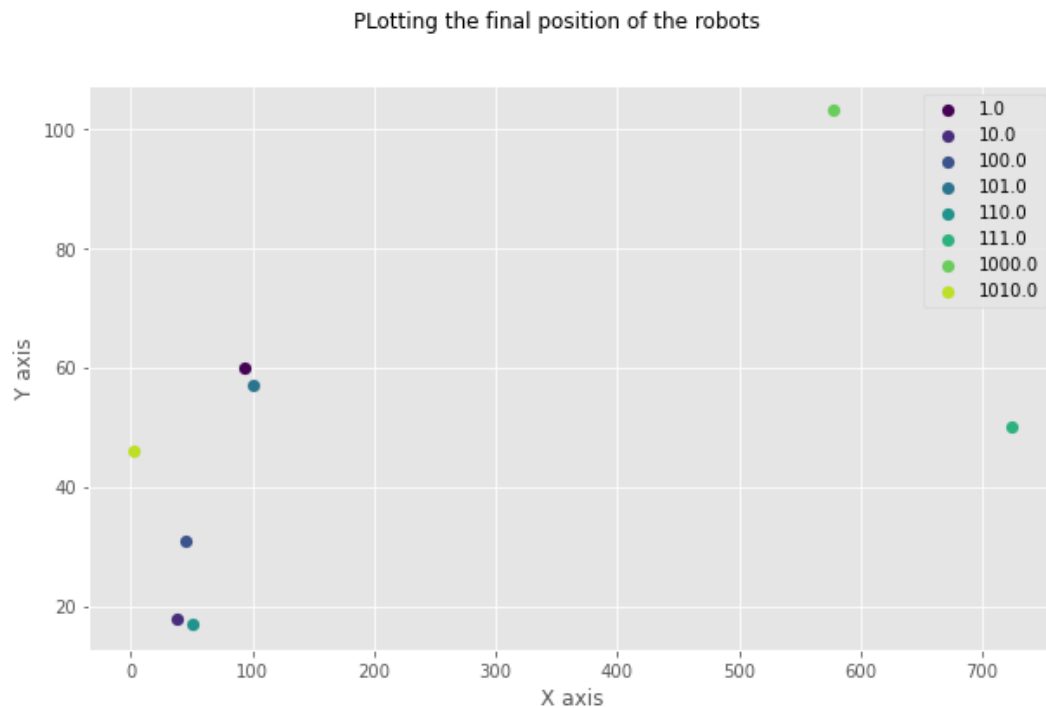
This plot shows the total distance travelled by each robot :



This plot shows the average distance per instruction by each robot :

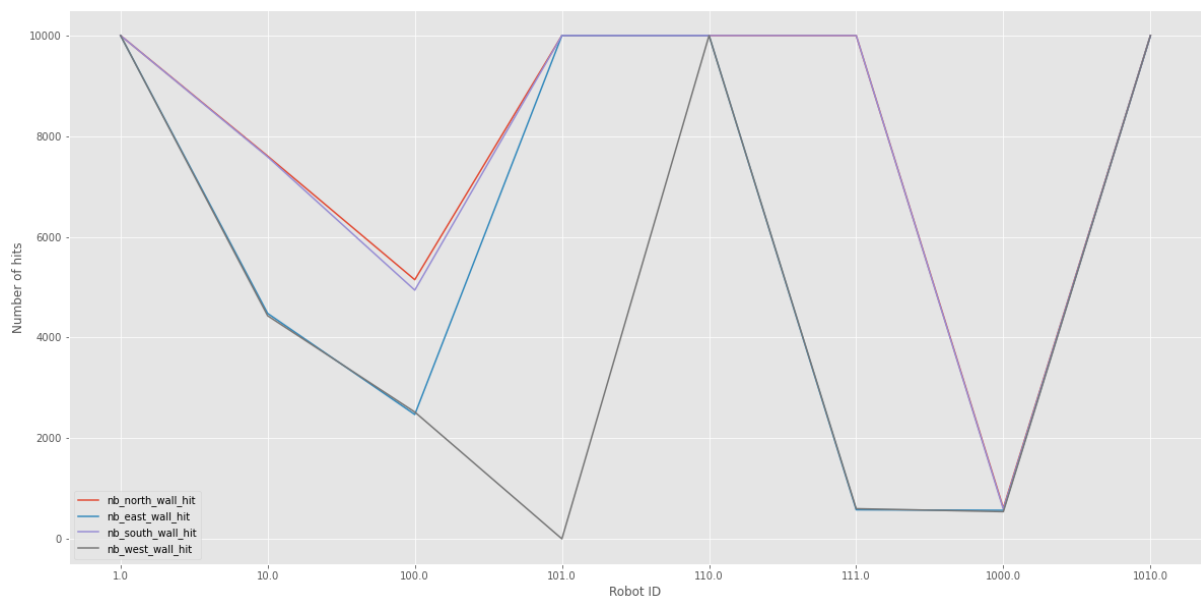


This plot shows the final position of each robot after the 10000 instructions.



This is useful to calculate the instruction required to reach the initial position (0,0).

The line plot shows the comparison of the four walls hit by each of the 8 robots.



There exists some correlation among the number of times each robot hits the four walls.

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