

As there are 8 possible types of movements in our logic we can define that in the case that we pass by the same cell more than 8 times we have entered a infinite loop

```
graph TD; A[As there are 8 possible types of movements in our logic we can define that in the case that we pass by the same cell more than 8 times we have entered a infinite loop] -.-> B([current.visits++]); B --> C([current.visits >= 8]);
```

current.visits++

current.visits >= 8