









Challenge 5: Count Number of Edges in an Undirected Graph

In this lesson, we will figure out if it's possible to count the total number of edges in an undirected graph.

We'll cover the following



- Problem statement
 - Input
 - Output
 - Sample input
 - Sample output
- Coding exercise

Problem statement

You have to implement the num_edges() function which takes an undirected graph and computes the total number of bidirectional edges. An illustration is also provided for your understanding.

Input

An undirected graph.

Output



Returns the number of unique edges in the graph.







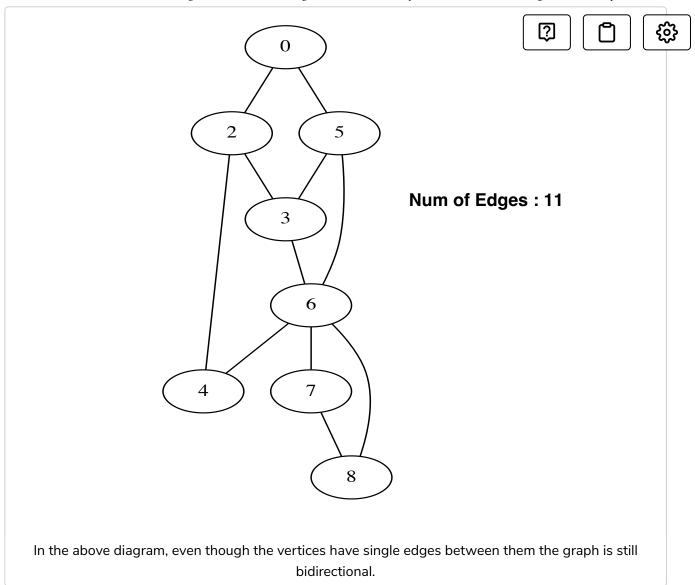
Sample input

```
graph = {
    0 - 2
    0 - 5
    2 - 3
    2 - 4
    5 - 3
    5 - 6
    3 - 6
    6 - 7
    6 - 8
    6 - 4
    7 - 8
}
```

Sample output

11



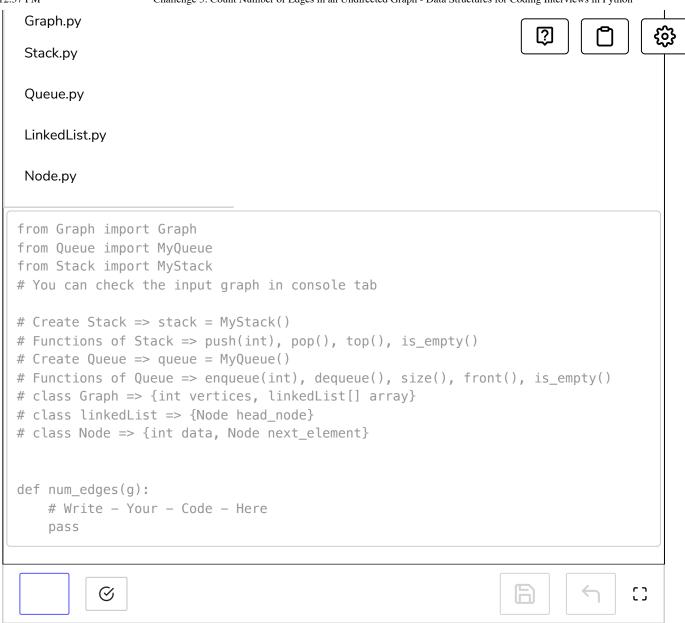


Coding exercise

This exercise is simpler than the previous ones. Nevertheless, take your time to solidify your logic before starting the implementation. Create as many helper functions as you need.

We will discuss the solution in the next lesson.

Good luck!



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Solution Review: Count the Number of...

Solution Review: Find a "Mother Verte... Solution Review: Co



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