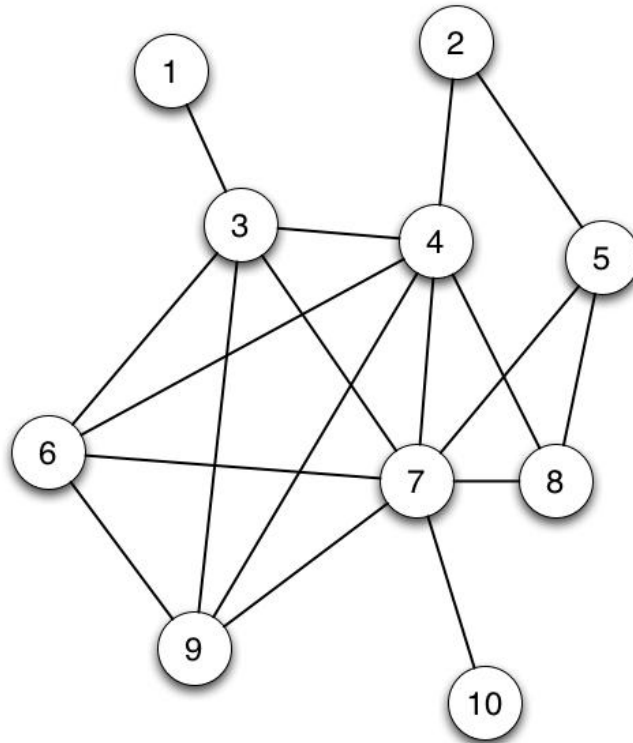


CS:1210 Quiz 11 (a)

You have 15 minutes to complete this quiz. This quiz depends on the `searchWordNetwork` function that was part of the program `playLaddersGame2.py`. Copy of this code will be provided to you on a separate sheet of paper.



Consider the network of “words” shown above. Suppose that we call the function `searchWordNetwork` on this word network with source “2” and target “10”.

1. Show the contents of the `reached` dictionary and the `processed` dictionary *at the beginning of each iteration of the while-loop* in `searchWordNetwork`. Make sure you show the key-value pairs in each dictionary and not just a list of keys. Assume that each time we pull an element out of `reached` using `popitem()`, we get the element that is numerically largest.

2. What is the output (from the print statement) produced when the function below is called as `fibonacci(5)`.

```
def fibonacci(n):
    if n == 1 or n == 2:
        return 1

    answer1 = fibonacci(n-2)
    print(n)
    answer2 = fibonacci(n-1)
    return answer1 + answer2
```