Lab 2

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Lab2.A

https://spaces.sustech.cloud/classes/14/assignment/lab2

Input:

16 5

cat c/a

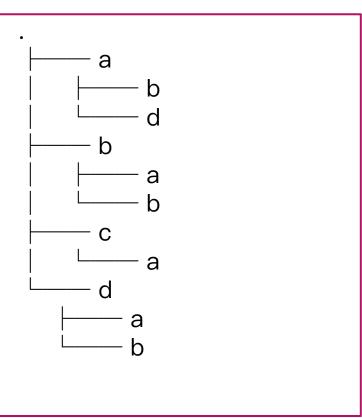
find a -name b

find

```
mkdir a
echo 123 > a/b
echo 234 > a/c
echo 345 > a/d
mkdir b
mkdir c
mkdir d
echo 666 > b/a
echo 23333 > c/a
echo 12312dasdasdf > d/a
mkdir a/e
echo > a/e/b
echo > b/b
echo > d/b
rm a/c
rm -rf a/e
cat d/a
```

find ./././ -name b -type f

Tree:



```
[(base) zhaoyaos-MacBook-Pro:data zhaoyao$ cat d/a
12312dasdasdf
[(base) zhaoyaos-MacBook-Pro:data zhaoyao$ cat c/a
23333
[(base) zhaoyaos-MacBook-Pro:data zhaoyao$ find .
./a
./a/d
./a/b
./c
./c/a
./d
./d/a
./d/b
./b
./b/a
./b/b
[(base) zhaoyaos-MacBook-Pro:data zhaoyao$ find a -name b
a/b
(base) zhaoyaos-MacBook-Pro:data zhaoyao$ find ./././ -name b -type f
./././/a/b
./././d/b
./././/b/b
```

Lab2.B

- ▶ Given an undirected connected graph G with n nodes and m edges. Nodes are numbered starting from 1 to n.
- Given two integers a, b. Now counting the pairs (x, y) that any path from node x to node y goes through node a and node b $(x \neq a, x \neq b, y \neq a, y \neq b)$.
- Print the required number of pairs. The order of two nodes in a pair does not matter, that is, **the pairs** (x, y) and (y, x) must be taken into account only once.

Input:

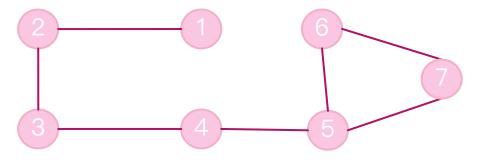
7 7 3 5

5 6

7 5

3 4

4 5



Pairs:

(1, 6) (2, 6) (1, 7) (2, 7)

Output:

4