

## Question :

You are given family tree relations which may be child, parent, grand child, grandparent and you are given two persons present in the family tree. Find the relations of the first person to the second person given.

## Input Description:

Two numbers n, m where n represents number of family members and number of family relations.

M relations each in new line

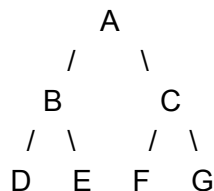
First person

Second person

## Output Description:

Relation of first person to the second person

## Sample Family Tree:



In the above relation of A to E is grand-child

In the above relation of E to A is grand-parent

## Test Cases

Test case 1:

7 6

A B

A C

B D

B E

C F

C G

A

E

Output:

grand-child

Test case 2:

7 6

A B

A C

B D

B E  
C F  
C G  
E  
A  
Output:  
grand-parent

Test case 3:

7 6

A B

A C

B D

B E

C F

C G

B

E

Output:

child

Test case 4:

7 6

A B

A C

B D

B E

C F

C G

E

B

Output:

parent

Test case 3:

7 6

A B

A C

B D

B E

C F

C G

C

G  
Output:  
child