

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 Mother of the given child

Input Description:

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

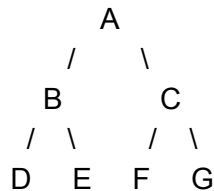
M relations each in new line

Child vertex

Output Description:

Mother of Child

Sample Family Tree:



In the above relation of A is the Mother of C and B

In the above relation of C is the mother of F and G

Test Cases

Test case 1:

7 6

A B

A C

B D

B E

C F

C G

E

Output:

B

Test case 2:

7 6

A B

A C

B D

B E

C F

C G

C

Output:

A

Test case 3:

7 6

A B

A C

B D

B E

C F

C G

G

Output:

C

Test case 4:

7 6

A B

A C

B D

B E

C F

C G

B

Output:

D

Test case 5:

7 6

A B

A C

B D

B E

C F

C G

B

Output:

A