

In [4]: *#Name: Mohith Dande*

Step-by-step Safe Crossing Plan:

We'll use:

F = Farmer

W = Wolf

G = Goat

C = Cabbage

Side A = Starting side

Side B = Other side

Rules:

The boat can carry only the farmer **and** one other (wolf, goat, **or** cabbage).

If wolf **and** goat are left alone → wolf eats goat.

If goat **and** cabbage are left alone → goat eats cabbage.

If the farmer **is** present, no one eats anything.

Steps:

1. Farmer crosses **with** goat

2. Farmer returns alone

3. Farmer crosses **with** cabbage

4. Farmer returns **with** goat

5. Farmer crosses **with** wolf

6. Farmer returns alone

7. Farmer crosses **with** goat

8. They are all on the other side

All done!

No one got eaten.

All crossed safely.

In [1]: