Example: Man, Cabbage, Goat, Wolf Problem

Description

You are on the east side of a river with a boat, a cabbage, a goat, and a

wolf.

Your task is to get everything to the other side.

How do you solve the problem?

Restrictions:

only you can handle the boat

2-1-2 運算思維

實例：渡河之謎

when you're in the boat, there is only space for one more item

you can't leave the goat alone with the wolf because the wolf will eat

the goat.

you cannot leave the goat alone with the cabbage because the goat will eat

the cabbage.

隨堂討論：請同學先把渡河問題說清楚，然後提出解決之道！！！

答：先把羊帶過去（狼不會吃草），空手回來將草帶過河，同時把羊帶回来，再把狼帶過河（對岸只剩狼和草了），空手回頭，最后把羊带過河就完成了。