A farmer wants to cross a river and take with him a wolf, a goat, and a cabbage.

There is a boat that can fit himself plus either the wolf, the goat, or the cabbage.

If the wolf and the goat are alone on one shore, the wolf will eat the goat.

If the goat and the cabbage are alone on the shore, the goat will eat the cabbage.

How can the farmer bring the wolf, the goat, and the cabbage across the river?

Solution:

1-Farmer takes Goat across   
2-Farmer returns alone  
3-Farmer takes Wolf across  
4-Farmer returns with Goat  
5-Farmer takes Cabbage across  
6-Farmer returns alone  
7-Farmer takes Goat across