Once upon a time in a land far away, there was a small village. The villagers lived in harmony with nature, using the land's resources to sustain themselves.

One day, a wise old man named Zoltan, who was known throughout the land for his knowledge of nature and the environment, approached the village council. He announced that he had discovered a secret way to harness the power of the sky to provide water for the village.

Zoltan explained that by building rainwater catchment systems, the villagers could collect and store rainwater for later use. He described how the systems work:

1. The catchment area: a rectangular area that slopes downhill, which collects rainwater.
2. The storage tank: a place to store the water that runs off the catchment area.

Zoltan emphasized the importance of the storage tank. It should be big enough to capture the water from big storms, but not so big that it never fills up. He proposed that the villagers build a tank large enough to capture all the rainwater from a large storm.

Zoltan further explained that he would be happy to help the villagers build these systems. He knew that many parts of the village were struggling with water shortages, and he wanted to help.

The villagers were excited by Zoltan's idea and agreed to build the rainwater catchment systems. They worked together to build the systems, and soon the village was filled with water again.

Zoltan smiled, happy to see the villagers using the power of nature to their advantage. He knew that this was just the beginning, and that with continued effort, the village would be self-sufficient when it came to water.

As the days went by, Zoltan continued to work with the villagers, teaching them how to maintain the systems and ensuring that they were used properly. The villagers were grateful for Zoltan's guidance and hard work, and the village prospered as a result.

And so, the village lived in harmony with nature, using the power of the sky to sustain themselves. Zoltan's legacy lived on, as the villagers continued to build and use rainwater catchment systems, ensuring a sustainable future for generations to come.
To receive credit for this assignment, you must show your source code and demonstrate your running program.

Ask your instructor who they would like you to show the assignment to.