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Initial Design

Algorithm for the Haunted Mansion Adventure

Start

Input: Prompt user for their name.

Output: "Hello [name], how old are you?"

Input: Get user’s age.

Condition: If age > 20 and age < 40:

Output: "You are eligible to go in the haunted mansion. Do you want to go in? (yes/no)"

Input: Get user's response (yes/no).

Condition: If response is "yes":

Output: "There are three doors to go in. Choose one: Door one, Door two, Door three."

Input: Get user's choice of door (1, 2, or 3).

Condition: If choice is 1:

Output: "You have reached a bridge. Only the brave can jump. Will you jump? (yes/no)"

Input: Get user's response (yes/no).

Condition: If response is "yes":

Output: "Congratulations! There is gold at the end of the trail, but you must answer these three questions correctly. If not, you will be sent back to the beginning."

Ask questions:

"What is 5 \* 5?"

Input: Get user's answer.

"What is 6 \* 6?"

Input: Get user's answer.

"What is 7 \* 7?"

Input: Get user's answer.

Condition: If all answers are correct:

Output: "You have earned 100 gold!"

Else: Output: "Wrong answers! You are sent back to the beginning."

Else (response is "no"):

Output: "You can go back to the intro."

Condition: If choice is 2:

Output: "You have reached a dead end."

Go to exit screen.

Condition: If choice is 3:

Output: "You have reached a diamond mountain. Do you wish to climb it? (yes/no)"

Input: Get user's response (yes/no).

Condition: If response is "yes":

Output: "Congratulations on making it to the top of the mountain! Look at the amazing view."

Go to exit screen.

Else (response is "no"):

Go to exit screen.

Else (response is "no"):

Output: "Are you scared to go in? (yes/no)"

Input: Get user's response (yes/no).

Condition: If response is "yes":

Output: "You can leave."

Go to exit screen.

Else (response is "no"):

Output: "There are three doors to go in. Choose one: Door one, Door two, Door three."

Input: Get user's choice of door (1, 2, or 3).

Repeat the door conditions as previously described.

End