REFACTOR

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The following five cards were selected to refactor the code:

adventurer, smithy, village, great_hall and embargo.

Refactoring process: I made the following five new functions and invoked the appropriate one from the appropriate switch case.

- 1. Adventurer function(choice1, choice2, choice3, state, handPos, bonus)
- 2. Smithy function(handpos, currentPlayer, state)
- 3. Village function(handpos, currentPlayer, state)
- 4. GreatHall function(handpos, currentPlayer, state)
- 5. Embargo function(handpos, currentPlayer, state, choice1)

Functions Smithy_function, Village_function and GreatHall_function need only handpos, currentPlayer and state as arguments. The other

two functions were passed additional arguments because they were used in their function definitions.

For the Adventurer_function and the Embargo_function, an integer was returned by these functions, and this value was returned by the

CardEffect function to its calling environment. The other three functions were simply made to return void, and 0 was returned by the

CardEffect functions to its calling environment.

BUGS

The following bugs were introduced in the code:

- 1. Embargo function(): Return type of the function was modified to 1.
- 2. Embargo function(): state->coins = state->coins + 1 // +1 instead of +2
- 3. Village function(): state->numActions = state->numActions + 1 // +1 instead of +2
- 4. Village function(): discardCard(handPos, currentPlayer, state, 1) //Third argument was made from 0 to 1
- 5. Smithy function(): for(i=0; i<2; i++) // for loop condition was changed from i<3 to i<2
- 6. Smithy function(): discardCard(handPos, currentPlayer, state, 1) // Third argument was changed from 0 to 1
- 7. Adventurer_function(): if (cardDrawn == copper||cardDrawn == silver||cardDrawn == copper) // gold changed to copper
- 8. Adventurer function(): return type of the function was changed from 0 to 1.