Step 1:

* What are the user inputs?
  + The user will input the number of mines, rows, columns and the guesses for what items to open.
* What are the program outputs?
  + The program will output the current game status and the requests for user input.
* What assumptions are you making about the user input?
  + The user will input whatever the program asks the way its asked. Example: If the program asks for rows and the user inputs ‘a’, there will be an error message.
* What are all the tasks and subtasks in this problem?
  + The program will request the user to input the size of the game, then, assign randomly the bombs and display that on screen. The program then will ask the user to choose coordinates and if it will open or flag that coordinate.

Step 2:

Start

Request Size

Request Bomb #

Print Game

Request Coord

Request if Flag or Open

Update Game

Print Game

Do

While

All bombs not flagged or not exploded

Print Win/Loose

Ask play again

Step 3:

|  |  |  |
| --- | --- | --- |
| Inputs | Output | Met Expectations? |
| Any letter or special character for number of columns and rows of the game, or number of bombs | Error message and request for new input |  |