

CONTINUE

- # Problem statement: MineSweeper App Write a program that simulates a Minesweeper game on a square grid.
- The game should begin by prompting the user for the grid size and the number of mines to be randomly placed on the grid.
- The program should then generate the grid and randomly place the specified number of mines on the grid.
- The user should then be prompted to select a square on the grid to uncover.
  - If the selected square contains a mine, the game is over and the user loses.
- Otherwise, the selected square is uncovered and reveals a number indicating how many of its adjacent squares contain mines.
- If an uncovered square has no adjacent mines, the program should automatically uncover all adjacent squares until it reaches squares that do have adjacent mines.
- The game is won when all non-mine squares have been uncovered.
- The program should display the game grid and allow the user to input their choices through a command line interface.
- Additionally, the program should track the user's progress throughout the game, displaying the minefield after each user input.

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## Game play
### Sucess example
Welcome to Minesweeper!
Enter the size of the grid (e.g. 4 for a 4x4 grid):
Enter the number of mines to place on the grid (maximum is 35% of the total squares):
Here is your minefield:
 1 2 3 4
A _ _ _ _
B _ _ _ _
C _ _ _ _
```

Select a square to reveal (e.g. A1): D4 This square contains 0 adjacent mines.

Here is your updated minefield: 1 2 3 4

A \_ \_ 2 0

D 1 0 0

Select a square to reveal (e.g. A1): B1 This square contains 3 adjacent mines.

Here is your updated minefield:

1 2 3 4

\_ \_ 2 0 

## #Requirements rewritten

- 1. Application is a minesweeper game.
  2. Application should be able to be read user inputs.
  3. The user will be freely able to input grid sizes and mines count
  4. The application should generate a 2d mine field.
  5. The user will be able to input a X and a Y dimension to specify a location on the field
  6. The field will be filled with mines and numbers.
  7. When the user selected a mine on the field, the game is lost
  8. When the user selected all the grids, the game is won
  9. When the user selected all the grids, the game is won
  10. Display the minefield after every selection.
  11. Display only the revealed fields.