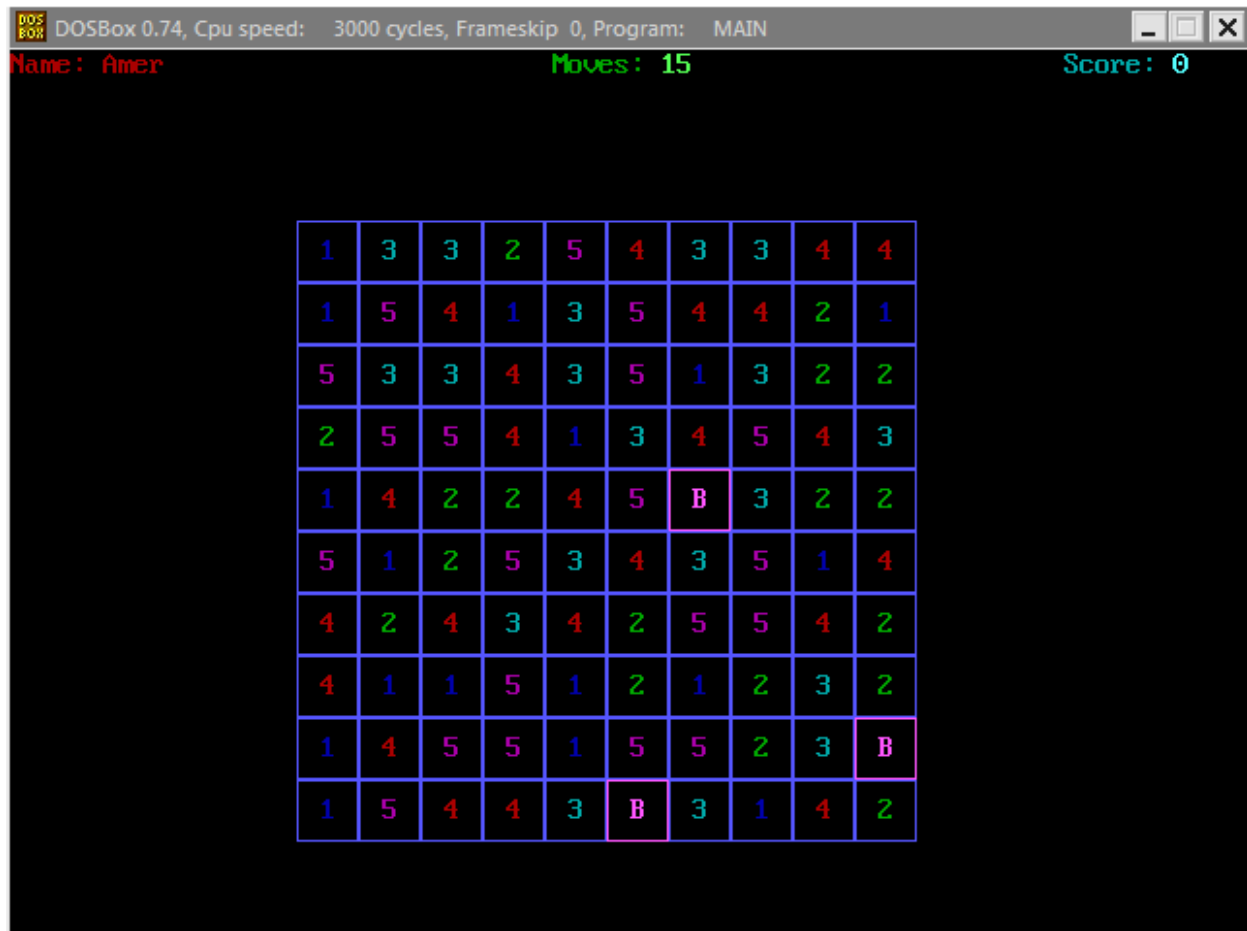


Number Crush Game

Muhammad Amer Farooq – i16-0100

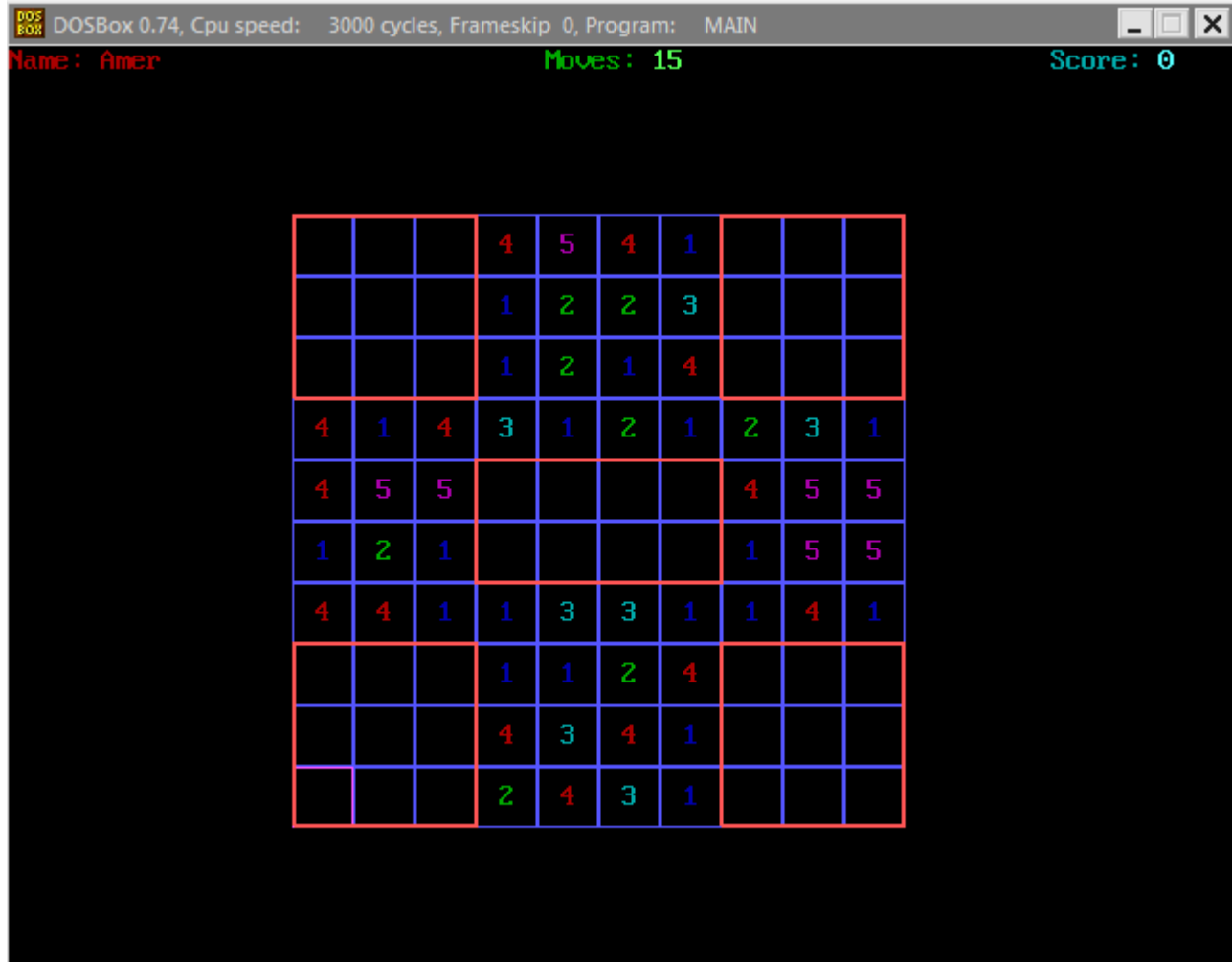
Syed Haider Ali – i16-0049

Level 1:



1. Each crushed tile counts as one score point towards the total score.
2. Horizontal combinations are crushed first, followed by vertical combinations.
3. Combinations with length equal to or greater than four have a bomb placed on the last tile of the combination, denoted by a 'B' on the board.
4. Initial moves are 15 and these are decremented with each move.
5. Swapped tiles are not reverted if a swap fails to make a combination.

Level 2:



1. Swapping with areas enclosed in the red border is not possible.
2. When the number zero moves up, indicating a crushed number, it will stop advancing once it reaches a restricted area.
3. Remaining rules are similar to level one.

Level 3:



1. A blocker is only removed if its located in a tile adjacent to a crushed combination.
2. When the number zero moves up, indicating a crushed number, it skips blockers on its path to the top row.
3. Blockers will be removed automatically when continual crushing occurs.
4. No new blockers can be formed.

Amer Farooq – Function List:

- i. initializeLevelOne
- ii. initializeLevelTwo
- iii. initializeLevelThree
- iv. generateRandomNum
- v. drawTile
- vi. drawRedOutline
- vii. drawBoardGrid
- viii. drawLevel
- ix. drawSquare
- x. printHorizontalLine
- xi. printVerticalLine
- xii. checkforMouseClicked
- xiii. checkForMouseRelease
- xiv. isSwapPossible
- xv. swapTiles
- xvi. continuousCrushAndDrop
- xvii. removeBlockersHorizontally
- xviii. checkBelow
- xix. checkAbove
- xx. checkLeft
- xxi. checkRight
- xxii. getLastColIndex
- xxiii. removeBlockersVertically

Haider Ali– Function List:

- i. drawString
- ii. displayGameInfo
- iii. boardTileToScreenTile
- iv. pixelToTile
- v. tileToPixel
- vi. boardTileToArrayIndex
- vii. boxFill
- viii. horizontalTraversal
- ix. horizontalCrush
- x. verticalTraversal
- xi. verticalCrush
- xii. blowBomb
- xiii. dropNumbers
- xiv. moveUp
- xv. displayMultiDigitNumber
- xvi. displayInitialScreen
- xvii. takingLevelInput
- xviii. displayingEnterLevel
- xix. takingUserNameInput
- xx. displayingEnterName
- xxi. drawingMiddleSquare
- xxii. drawingCornerSquares
- xxiii. drawSquareForUserInterface
- xxiv. drawHorizontalLineOfUserInterface
- xxv. drawVerticalLineOfUserInterface
- xxvi. displayNumberCrush
- xxvii. displayNumbers