

Project 02: 1A2B

Description

The game 1A2B(also known as **Cows and Bulls** or **Pigs and Bulls**) is a code breaking mind game for two or more players. This programme provides two modes for players, which are Answer Mode and Guessing Mode.

developer

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Structure

./proj02

├── 411410005.c

└── 411410005.pdf

0 directories, 2 files

Detail

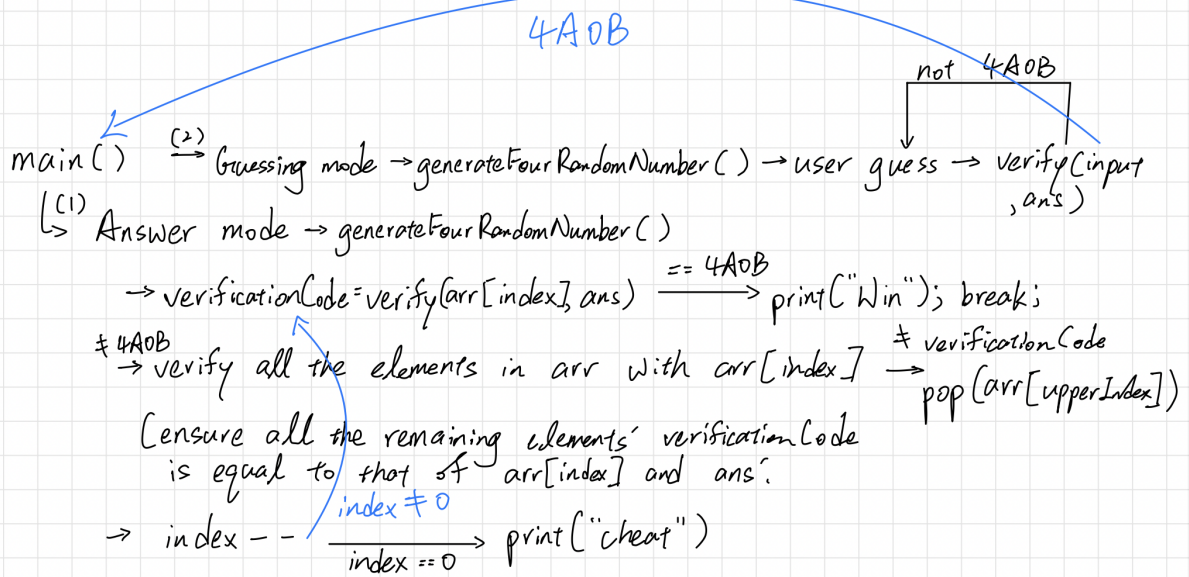
Answer Mode

By checking the result of previous request, we get to eliminate elements that are not qualified for certain condition, and we do this recursively till 4A0B appear or all elements in array are discarded, then we call it a ***cheat***.

Guessing Mode

This mode only requires some skill about input/output and character processing. It's noted that $A+B \leq 4$, so all the input should be legit.

Flow chart



arr[5040] : store all the combinations in arr[5040]

0	0123
1	0124
2	0125
3	0126
⋮	
5038	9874
5039	9875
(index)	(value)

Screenshot

```
(base) 930727fre@930727frem2 2022-wmh-ccu % c
h-ccu/"proj02_final
Mode:(1)Answer/(2)Guessing(3)Quit?
input:1
Answer mode
the programe guess: 9876
Please input the A and Bs(space is required)
enter:0 0
the programe guess: 1023
Please input the A and Bs(space is required)
enter:2 2
the programe guess: 3021
Please input the A and Bs(space is required)
enter:1 3
the programe guess: 1320
Please input the A and Bs(space is required)
enter:1 3
the programe guess: 1032
Please input the A and Bs(space is required)
enter:1 3
YOU CHEAT
```