ชื่อ-นามสกุ	ด ID	(30	นาร์	ที)

- 1. (8 marks) A game "Don't step on the bombs!" are played by 2 players. The game contains 2 files:
 - **data.pl** is used to store where the bombs are. It also stores how many times each player won.
 - **program.pl** is the main logic of the game.

Hint:

- use "asserta(X)" to write X to memory and "retract(X)" to remove X from memory.
- Declare :-dynamic X/Y. in the beginning of your file to allow predicate X (which has Y parameters) to be used with "asserta" and "retract".
- :-reconsult('data.pl'). is on the first line of program.pl to import file.
- Gameplay process (user must type start).
 - i. (1 mark) When the game starts, the first player is asked to plant 1 bomb in a tray of 3 slots (number 1 to 3). (must input data)
 - ii. (1 mark) Then the second player is asked to pick a position. (must input data)
 - iii. (2 mark) If the picked position contains a bomb, the first player wins the round. Notify the players and store the winning record in memory.
 - iv. (2 mark) Otherwise, the second player wins the round. Notify the players and store the winning record in memory.
- Save process (user must type save).
 - i. (1 mark) Save the bomb position and winning record of both players into data.pl. source file.
- <u>Display winning records</u> (user must type **printRec**).
 - i. (1 mark) Print the winning records of both players.

How to submit:

Zip both prolog files into a zip file named with your id (for example, 6133320021.zip) and submit it on MyCourseville.

An example run is shown below (this is just a guide, you can do it anyway you want as long as your program satisfies the given behaviors.)

```
?- start.
Player1, please select a position for a bomb (1-3)
|: 2.
Player2, please pick a position (1-3)
I: 1.
Player2 wins this round.
true.
?- start.
Player1, please select a position for a bomb (1-3)
Player2, please pick a position (1-3)
|:3.
Player1 wins this round.
true.
?- printRec.
Player1 wins = 1.
Player2 wins = 1.
true. % files are still unchanged at this point.
```

?- save.

true. % file data.pl now changes to reflect the stored winning records and bomb position.