Lab 5

Lab5 OJ link

https://lms.sustech.cloud/assignment/82

Lab5 has been released on the new OJ, you can sign in the new OJ using your account and password from the old OJ.

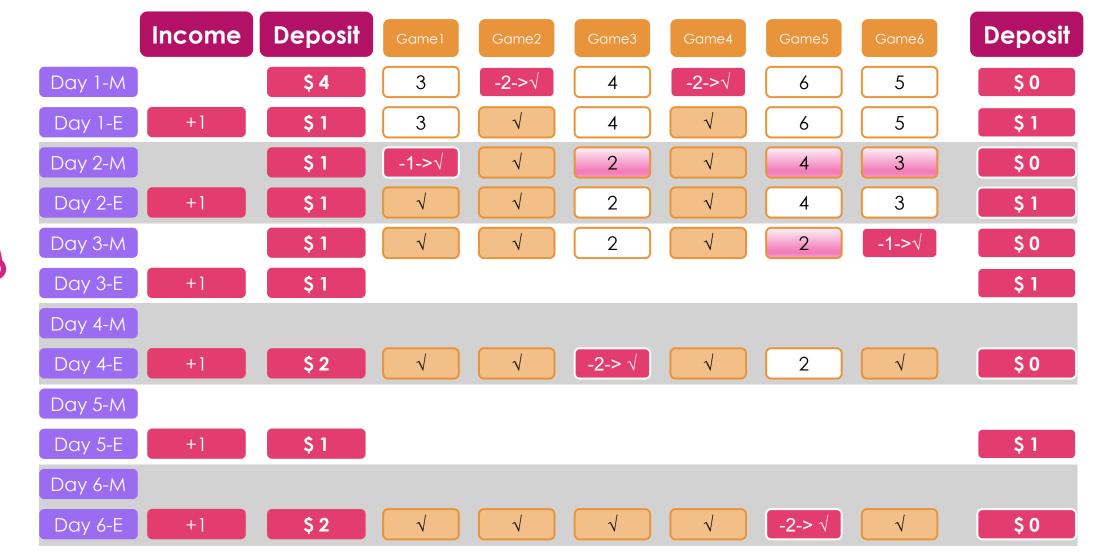
Lab5 A: Game

- \blacktriangleright Bob is a second-year student in SUSTech who wants to buy M games online to spend his holiday. Initially, he had N units money.
- ▶ The good news is that all the games he wants are on special sales promotion, in which the price of each game will decrease *K* units day by day as long as the price can maintain a **positive** price value. (If the price is 9, each day decreases 10, then the price should maintain at 9).
- ▶ The price of each game decreases on the morning of each day **except** the first day.
- ▶ Also, Bob adds his income of *I* to his wallet from his dear parents on the evening of each day including the first day.
- ► The task is to help Bob determine the minimum days to get all the games and the state (morning or evening).

Sample Input

4162 324265

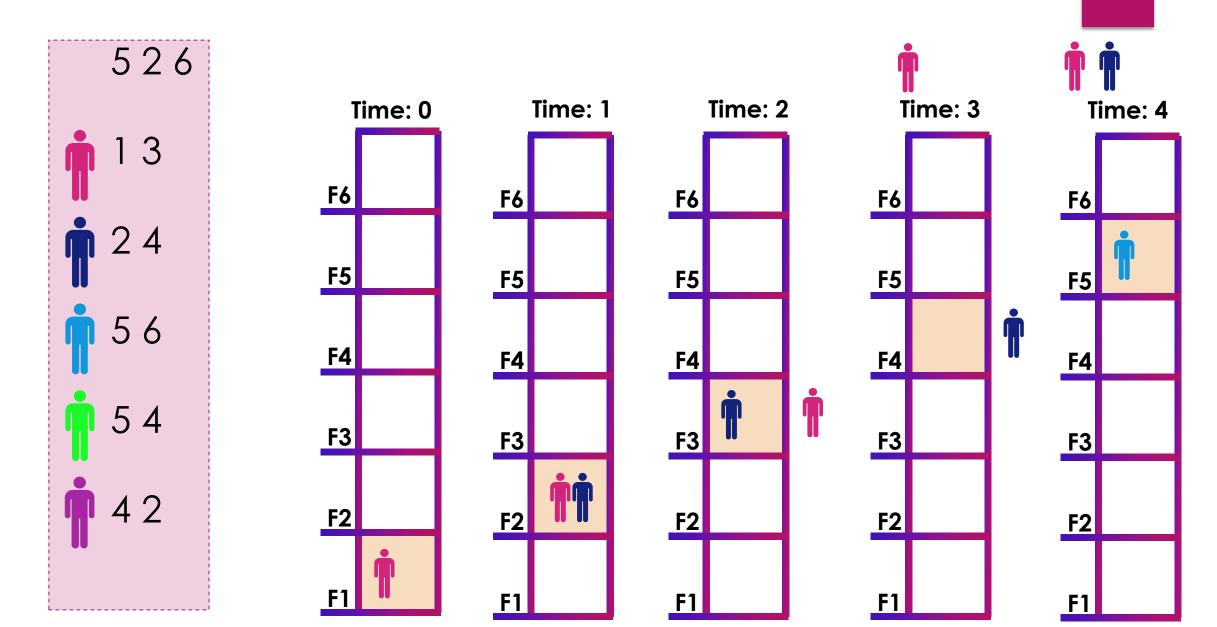
- N: original Deposit 1
- I : income per day
- M: games number 2 K: decrease units per day



Lab5.B: Elevator

- ▶ TB-X is a wonderful teaching building in SUSTech.
- ightharpoonup TB-X has k floors. Today, there are n people going to take the elevator.
- The i-th person wants to go from a_i -th floor to b_i -th floor. The elevator has a capacity of m people. It starts from the first floor. The elevator takes 1 unit of time to go up or down one floor. The time people enter and exit the elevator can be ignored.
- ▶ The elevator could not change its direction arbitrarily. When the elevator is going down, it can change its running direction if and only if it reaches the first floor.
- The task is to find out the minimum time to carry all people to their destination and let the elevator back to the first floor.

Sample Input



Sample Input

