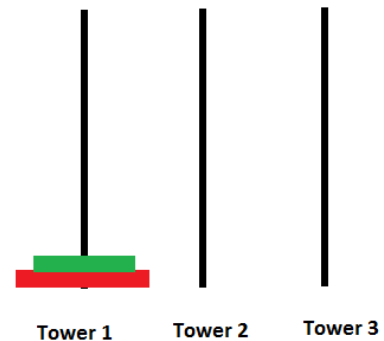




T1. Anna has a game, with three Towers and two disks. The object of the game is to move the disks from Tower 1 to Tower 2, but she cannot place a larger disk onto a smaller disk and only one disk can be moved at a time. Anna can use Tower 3 as an intermediate.



Question: Which is the correct order of moves needed?

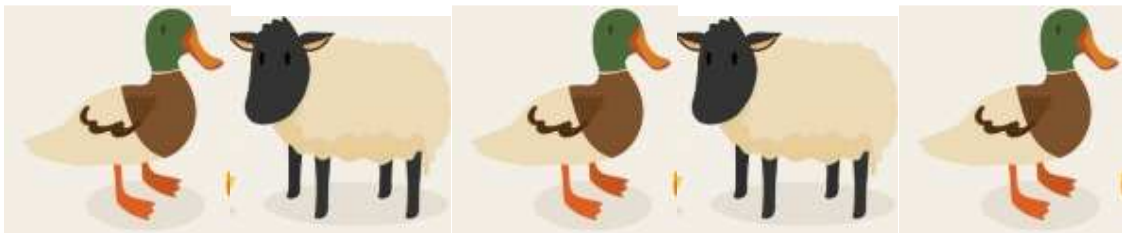
- A.** Disk green to Tower 2, disk red to Tower 3, disk green to Tower 3
- B.** Disk red to Tower 3, disk green to Tower 2, disk red to Tower 2
- C.** Disk green to Tower 3, disk red to Tower 2, disk green to Tower 2
- D.** Disk green to Tower 2, disk red to Tower 3, disk red to Tower 2

T2. Bob has several cubic boxes with side length 2. How many can be stacked in a room with height 7?



- A.** 2
- B.** 3
- C.** 4
- D.** 5

T3. In grandfather's courtyard there are three ducks and two sheep. Determine the number of heads and the number of legs in the yard.



- A.** 2 heads and 6 legs
- B.** 3 heads and 8 legs
- C.** 5 heads and 10 legs
- D.** 5 heads and 14 legs



- T4.** Anna plays with a stack of colored plates. Her older brother plays with her and said: **push red** means to add a red plate on the top of the stack, **push blue** means to add a blue plate on the stack and so on, but **pop** means to remove the plate from the top of the stack.



Question: What dish sits at the top of the stack of plates, after the following commands: push red, push blue, pop, push green, push yellow, pop.

- A. red
 - B. green
 - C. blue
 - D. yellow
- T5.** There was once a dragon with three heads. One day Prince Charming was angry and cut off one of the heads. Overnight, three heads grew where the one cut off stood. The next day, Prince Charming cut off another head, but overnight 3 more heads grew. Although he was bored, Prince Charming cut off one more head and then went home!



Question: How many heads will the dragon have after 3 days?

- A. 9
- B. 6
- C. 5
- D. 3



Bebras

International Challenge on Informatics
and Computational Thinking

Pre-Ecolier

ANSWER KEY

T1	T2	T3	T4	T5
C	B	D	B	A