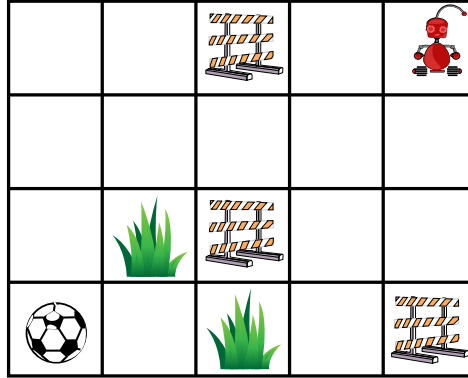


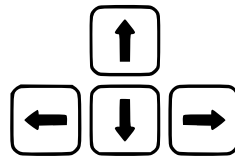
Tasks T1 – T6 carry 3 points each

T1. RoccoBot

Rocco wants a robot to reach the ball without crashing into any obstacles, like fences or tall grass. Rocco has put a robot in the top-right square of the grid.



Rocco can use these arrow buttons to move the robot. The robot will move in the direction of the arrow regardless of the direction the robot is facing.



Question / Challenge

Rocco can move the robot one square at a time. Which is a correct sequence of arrow buttons to direct the robot to reach the ball?

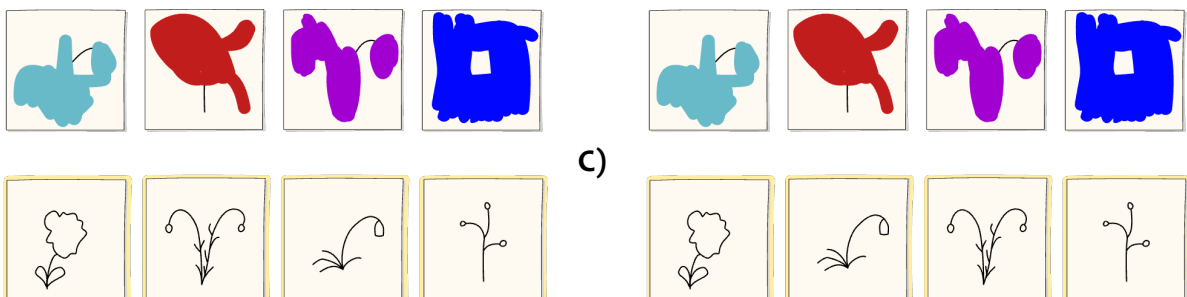
- A)
- B)
- C)
- D)

T2. Beautified Drawings

Lars made some drawings of plants. His baby sister Carlotta found these drawings and tried to beautify them with finger paint. Can you still recognize the original drawings?

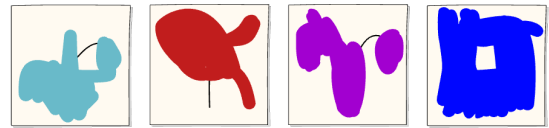
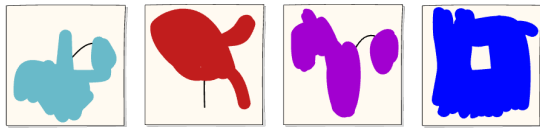
Question / Challenge

Which beautified version matches each original drawing?

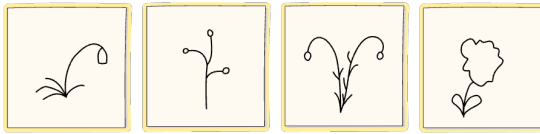


A)

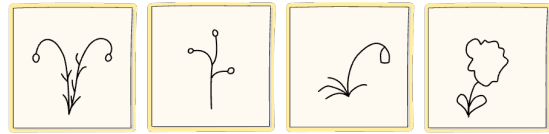
C)



B)

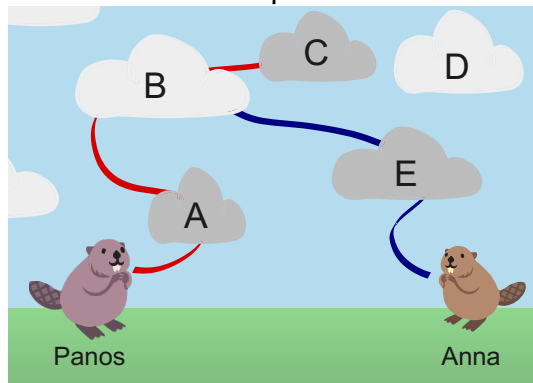


D)



T3. Cloudy Day

The beavers Panos and Anna are flying their kites during a cloudy day. The clouds are hiding the beavers' kites. Each beaver's kite is tied up to the end of each string.



Question / Challenge

Which cloud is hiding Panos kite?

A) A

B) B

C) C

D) D

T4. The Shape Factory

In the Shape Factory a machine produces a sequence of four shapes over and over in the same order.

But something went wrong and the machine stopped.



Question / Challenge

Which shape must be in the place of the question mark?

A)

B)

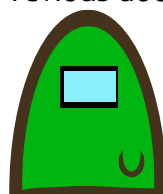
C)

D)

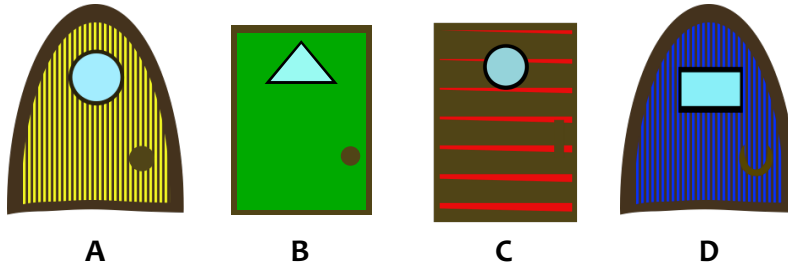
T5. Magic House

Beaver Josie got trapped in a magic house from which she has to escape. She can only go through doors which are completely different from the one she just passed. Two doors are considered completely different if their shape, color/pattern, window shape, and handle shape differ.

Previous door



Next doors



Question / Challenge

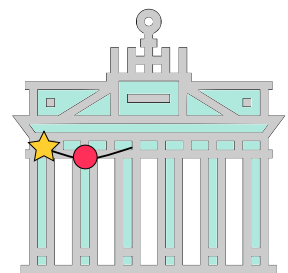
Which door will lead Josie out of the magic house?

- A) A B) B C) C D) D

T6. Christmas decorations

A new light is added to the decorations in Bebras town every week before Christmas.

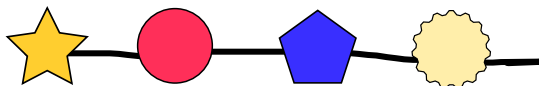
The lights are stored in different boxes labeled as shown below:



Box A		Box B		Box C		Box D

Question / Challenge

The decorations look like this after four weeks. In what order were the boxes opened?

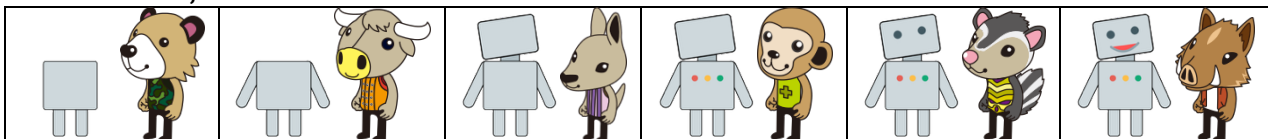


- A) ACBD B) CBDA C) DACB D) CADB

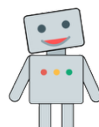
Tasks T7 – T12 carry 4 points each

T7. Robot Assembly

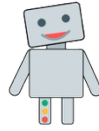
Six animals work on a robot assembly line in order to make toy robots. Each animal has a different job in the order shown:



At the end of the assembly line the toy robots are supposed to look like this:







However, the toy robots actually look like this:



Question / Challenge

Which animal is not doing their job correctly?

- A) 
- B) 
- C) 
- D) 

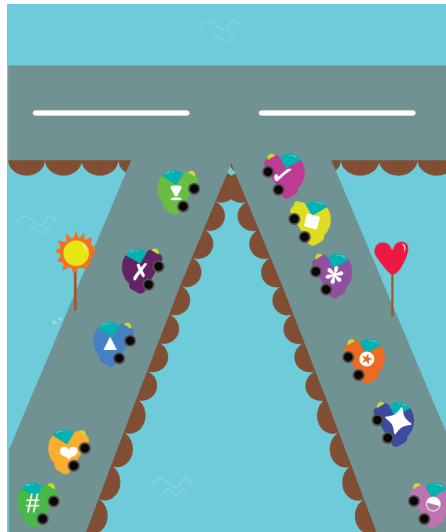
T8. Polite Beavers

Cars enter a main street. They alternate which street they come from:




comes from

Heart Lane  , then a car comes from Sun Street  , then Heart Lane, then Sun Street, and so on.








Question / Challenge

Which car will enter immediately after  ?

- A) 
- B) 
- C) 
- D) 

T9. Alex's Treasure

Alex the explorer has found an old treasure map! The map shows a grid with different symbols:  (Starting point),  (Grass),  (Mountain),  (Water), and  (Treasure).

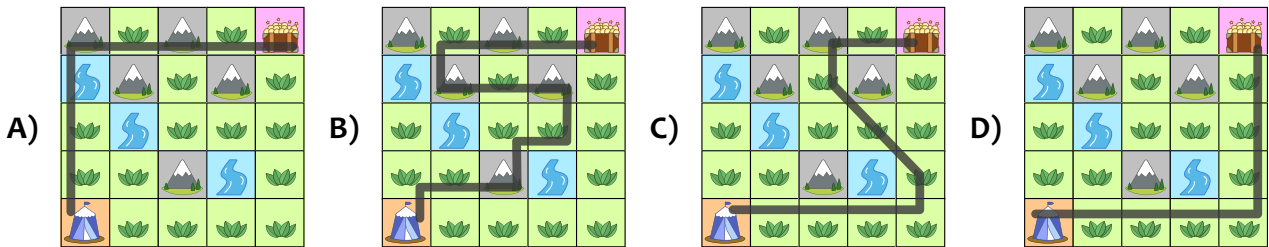
Alex must reach the treasure from the starting point, but he must follow three rules:

1. He cannot step on water.
2. He must cross at least one mountain.
3. He can only move up (↑), down (↓), left (←), or right (→) — but not diagonally (↖, ↗, ↘, ↙).



Question / Challenge

Four paths are shown below. Which path leads Alex to the treasure while following all the rules?

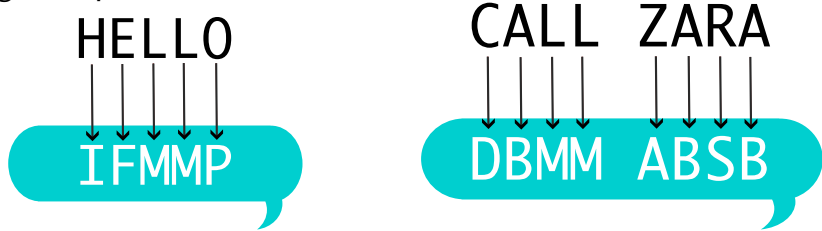


T10. Secret agents

Bob and Alice are secret agents. Others should not understand the messages they send to each other. They use the Latin alphabet, with the letters A-Z:



To write a secret message, they will replace each letter with the next one in the alphabet as in the following examples:







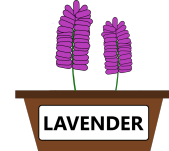
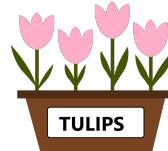
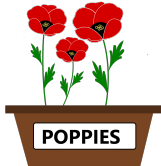
Question / Challenge

Bob wants to send Alice chocolate as the secret message. What should he write?

- A) **DIPDPMBUG**
- B) **DIPDPNBUF**
- C) **DIPDPMBUF**
- D) **DGPDPMBUF**

T11. Juan's flowers

Juan has four types of pots to prepare a gift for his father: pot with poppies , pot with daisies , pot with tulips , and pot with lavenders . Each pot has a different number of flowers:



Juan wants to give 1 poppy, 1 tulip and 3 daisies to his father.

Question / Challenge

After giving the flowers to his father, which pot has the most flowers left?

- A) Tulips B) Daisies C) Poppies D) Lavanders







T12. Pizza Machine

Flora has a pizza machine that makes pizzas. The machine has programmable buttons, and when you press one, it adds a topping.

Buttons:



Rules:

- The machine always puts cheese and sauce on the pizza!
- If button  is pressed, olives are added.
- If button  is pressed, pepperoni is added.
- If button  is pressed, mushrooms are added.
- If button  is pressed, ham is added.
- If button  is pressed, bacon is added.
- If button  is pressed, pineapple is added.

Question / Challenge

Flora presses buttons:    

What toppings will be on the pizza?

- A) Cheese, sauce, pepperoni, mushrooms, ham, pineapple
 B) Cheese, sauce, bacon, pepperoni

- C) Cheese, sauce, mushrooms, olives, bacon
- D) Cheese, sauce, mushrooms, olives, pepperoni, bacon

Tasks T13 – T18 carry 5 points each

T13. Beavers race

Five beavers are running, one behind the other, from right to left. Each beaver is wearing a hat with a different symbol on it. After the first minute of the race, the order of the beavers (1–5) was as shown in the picture:

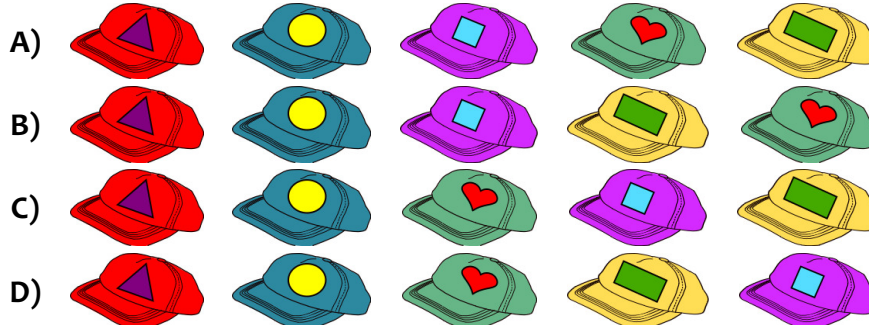


During the race, the following changes in position occurred:

- 1) The beaver with the hat with a blue square moved forward two places.
- 2) Then the beaver with the hat with a green rectangle moved forward one place.
- 3) Then the beaver with the hat with the red heart moved forward two places.

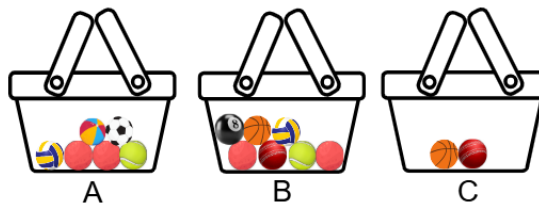
Question / Challenge

What is the final order of the beavers at the end of the race?



T14. Equal baskets

Aiman has three baskets each containing a different number of balls. The baskets currently contain a certain number of balls as shown in the picture.



He will move balls between baskets. In each MOVE, only ONE ball can be moved from one basket to another.

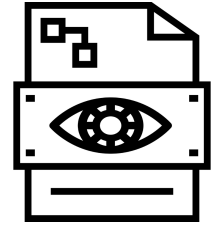
Question / Challenge

What is the minimum number of moves required so that all baskets have the same number of balls?

- A) 2
- B) 5
- C) 10
- D) 3

T15. Confused Machine

Amy made a machine that tries to tell if a picture shows an animal or an object. However, the machine is not perfect and sometimes makes mistakes.



To test it, Amy showed the machine 6 animal pictures and 6 object pictures. Here are the results of what the machine guessed:

Real picture						
Machine's guess	Animal	Object	Animal	Animal	Object	Object
Real picture						
Machine's guess	Animal	Animal	Object	Animal	Animal	Object

Question / Challenge

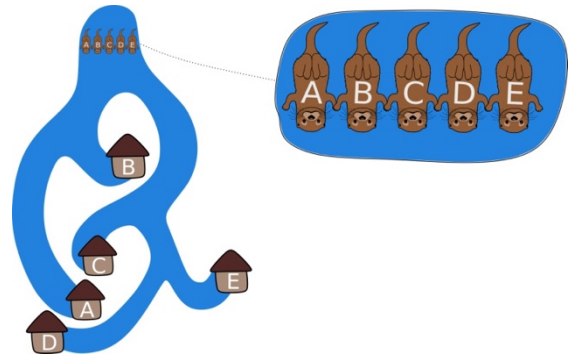
For which category the machine made more mistakes?

- A) Animal B) Object C) Equal number of mistakes D) Cannot tell

T16. Swimming otters

Five otters swim in the river holding hands. At each fork in the river, exactly two otters stop holding hands so they are split into two groups. Each group swims into a different part of the river.

Each otter has a home with the same letter on it. All otters want to swim to their homes.



Question / Challenge

Which two otters should stop holding hands at the first fork in the river?

- A) otter A and otter B C) otter C and otter D
 B) otter B and otter C D) otter D and otter E

T17. Persian Carpet

Sarah has a knitting robot that make carpets using four different patterns. Each pattern is given to the robot using a two digit code:

00	
11	
01	
10	

Sarah gives this knitting program to the robot. Each code tells the robot which pattern to knit into each square of the carpet. The robot knits row by row, from left to right, top to bottom.

```
00-10-10-10-10-01-10-10-10-00
10-01-10-01-01-01-10-01-10
01-11-01-01-11-01-01-11-01
10-01-10-01-01-01-10-01-10
00-10-10-10-01-10-10-10-00
```

Question / Challenge

Which of the following carpets will the robot make based on Sarah's program?

A)

C)

B)

D)

T18. The Queen's Favourite Fruit

Five villagers have come to offer the Queen baskets of fruit: apples (🍏), bananas (🍌) and pears (🍐). Each basket has 8 pieces of fruit in total.

Apples are the Queen's favourite type of fruit. She will see the villagers in order from the villager with the most apples to the villager with the least apples. If two baskets have the same number of apples, the Queen will see the villager with more bananas first.

Question / Challenge

Five villagers arrive with the following baskets. In which order will the Queen see the villagers?

A)

B)

C)

D)

END