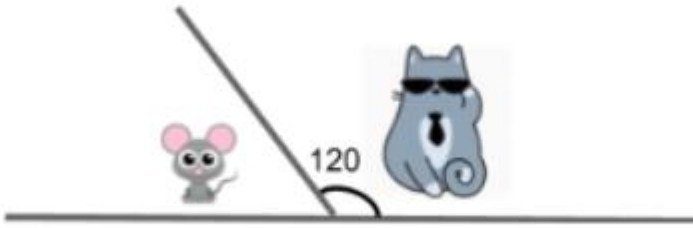
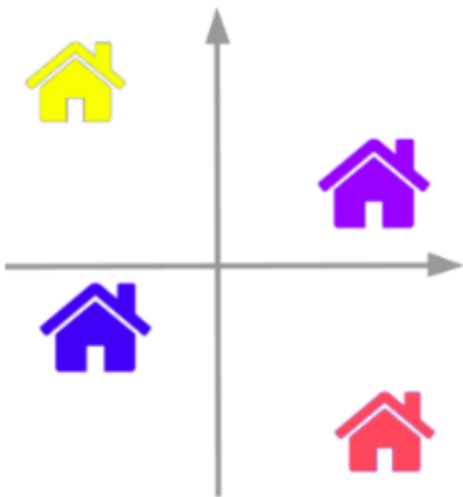


1. In this picture, you can see Max the Cat who is resting inside a 120 degrees angle. How big is the angle where Minnie the mouse is hiding?



Your answer:

2. Four dwarves live in the 4 houses. The coordinates of these houses are: $(-20,20)$, $(18,5)$, $(20,-20)$, $(-18,-5)$. For each house, specify its color.



$(-20, 20)$

$(18, 5)$

$(20, -20)$

$(-18, -5)$

Yellow House	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Blue House	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Purple House	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Red House	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3.

Minnie the Mouse understands these instructions:

"RIGHT" – turn 90 degrees right on the spot;

"LEFT" – turn 90 degrees left on the spot;

"FORWARD" – move forward until hitting an obstacle.

Currently, Minnie is in the lower left corner of the field, looking up.
Which sequence of instructions would bring Minnie to her home (upper right corner)?



Write the instructions here:

4. A flower shop sells the following types of flowers:

lily, hibiscus, tulip, rose.

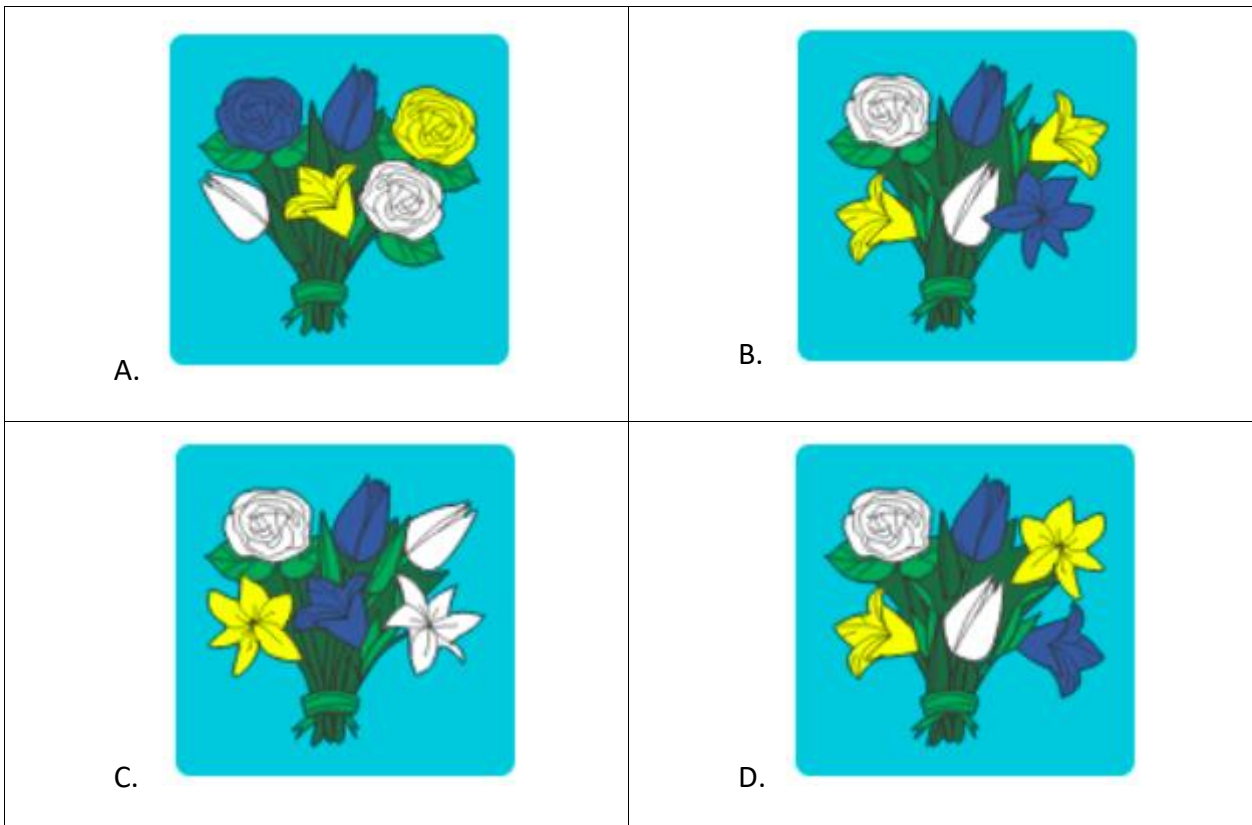


All the flowers are available in white, yellow, and blue. Clara wants six flowers. She tells the florist:

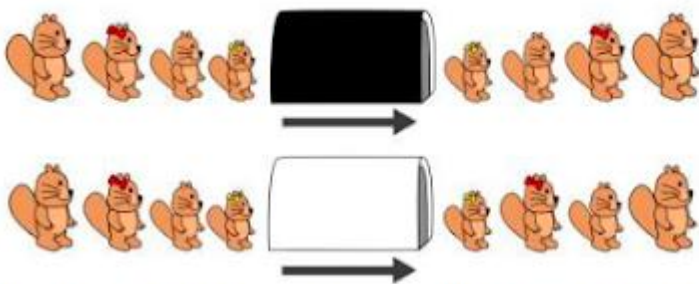
- There must be 2 yellow, 2 white, and 2 blue flowers
- Flowers of the same type must not have the same color.
- She doesn't want more than 2 of any type of flower.

Question:

Which of the following bouquets will Clara want?



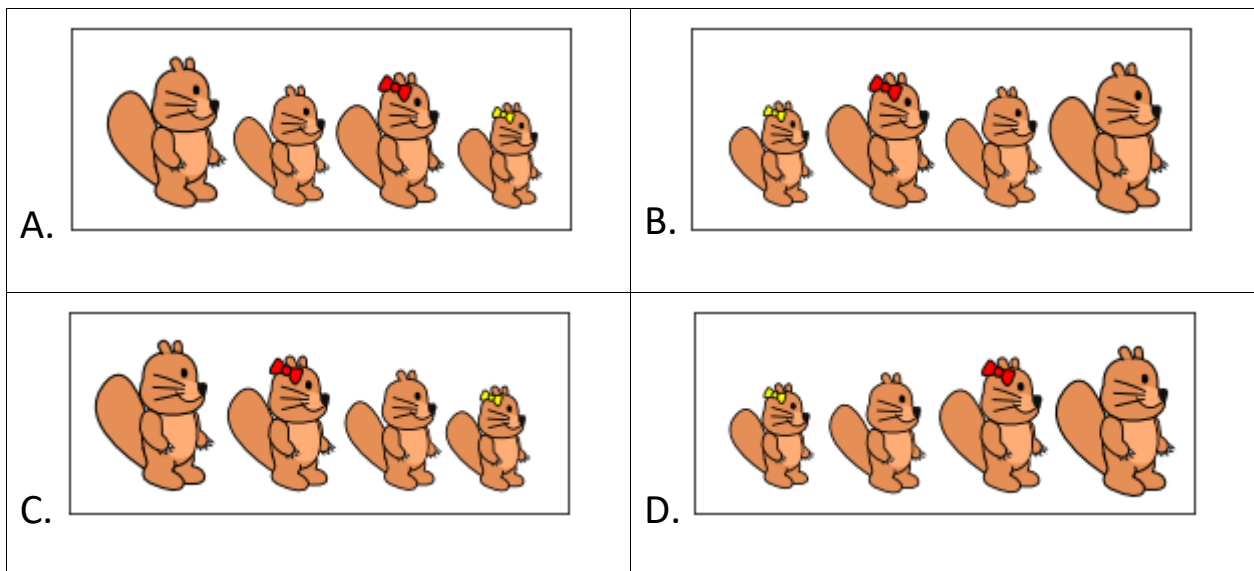
5. There are two types of tunnels in BeaverLand. When beavers enter a black tunnel, they are exiting on the other side in reverse order: last to first. When beavers enter a white tunnel, the first and the last beavers swap places.



This family of 4 beavers is passing through these three tunnels:



When the beavers exit the last tunnel, what their order will be?



6.

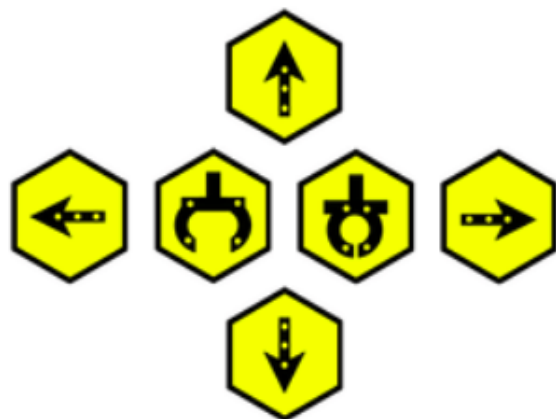
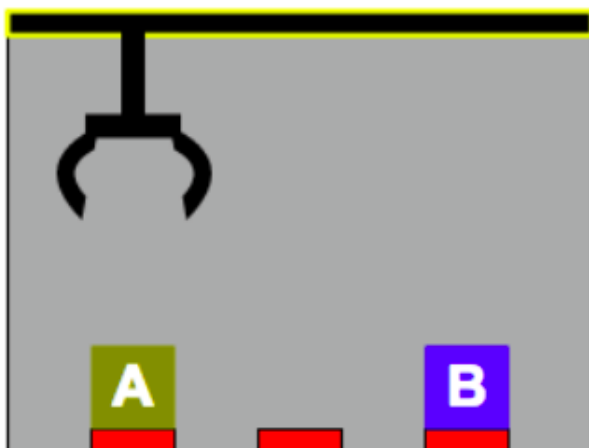
The crane has six different input commands:

1. Left
2. Right
3. Up
4. Down
5. Grab
6. Release

Crate A is in the left position, crate B is in the position on the right.

Question:

Write the sequence of commands using "Up" "Down" "Left" "Right" "Grab", "Release" that will swap the positions of the crates.



Your answer: