**Option 1 – sorting of random colors**

1. Starting position:
   1. Three different colored blocks (red, green, blue) are randomly placed on given spaces next to robots 1 and 2
   2. A conveyer belt leads from robots 1 and 2 to robot 3
   3. Next to the robot 3 there are predefined spaces for each color
2. Robots 1 & 2 alternately pick up one of the “random colored” blocks and place them on the conveyer belt
3. As soon as one block reaches the photoelectric barrier the conveyer belt comes to a halt
4. Robot 3 picks up the block
   1. Places it on the color scan
   2. Classifys the color
   3. Sorts and places it to the correct predefined space

**Option 2 – sorting of sorted colors / infinite loop**

1. Starting position:
   1. Three different colored blocks (red, green, blue) are sorted and placed on given spaces next to robots 1 and 2
   2. A conveyer belt leads from robots 1 and 2 to robot 3
   3. Next to the robot 3 there are predefined spaces for each color
2. Robots 1 & 2 alternately pick up one of the blocks and place them on the conveyer belt
3. As soon as one block reaches the photoelectric barrier the conveyer belt comes to a halt
4. Robot 3 picks up the block
   1. Places it on the color scan
   2. Classifys the color
   3. Sorts and places it to the correct predefined space
5. After all blocks are sorted
   1. Robots 1 & 2 pick up the pallets with the sorted blocks and
   2. Place them on the starting position / predefined spaces

This loop could go on for any amount of runs.