Dash’s next stop is an arctic coastal tundra. The ice is melting, and a mama polar bear is stuck on a piece of ice that’s drifting out to sea as she was out hunting for food. Help Dash reunite the polar bear with her baby by pushing the iceberg back to land.

Mission 4: Polar Bear Problems

- Dash
- Your tablet
- Dot
- 2 Solo cups
Dash’s starting place: C1

Polar Bear Problems

Your mission

1. Randomly put 1 cup upside down in the center of B6 or B7 and put Dot on top. Dot is the bear cub.
2. You don’t know where the bear cub will be so, your program needs to work for both locations.
3. Make Dash find the momma bear and push her to a cell that’s next to the bear cub.
   - If the bear cub is at B6, the momma bear needs to be pushed to B7
   - If the bear cub is at B7, the momma bear needs to be pushed to C7

Rules

- Don’t disturb the bear cub! Don’t knock Dot off the cup or move Dot’s cup out of the cell.
- Don’t make Dash go outside the grid!

Test your program! Try putting Dot on the cup at B6 and then run your code. Then try putting Dot on the cup at B7 and run the same program again. Does it work both times? What sensors do you need to use to check to see where Dot is?

In your submission video, run your program twice. Once where the bear cub is at B6 and once where the bear cub is at B7. They must use the same code.

Score

- 50 points max
- 25 points for pushing the momma bear cup completely into B7
- 10 points for pushing the momma bear cup partially into B7
- 25 points for pushing the momma bear cup completely into C7
- 10 points for pushing the momma bear cup partially into C7

Dress Dot up as a polar bear cub.