



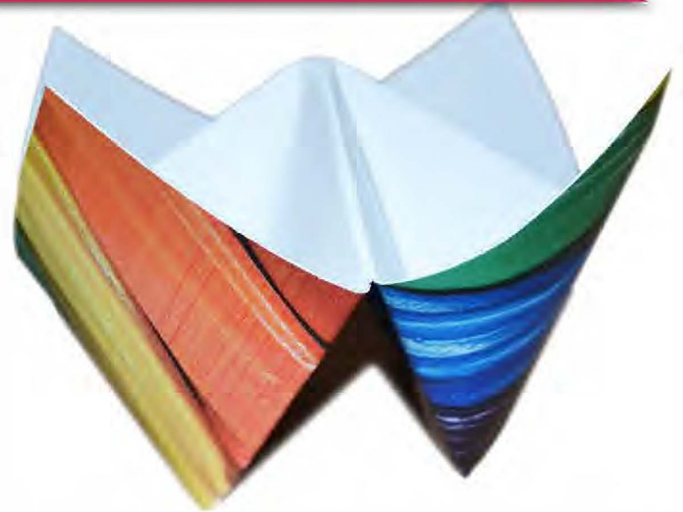
RIGAMI



ALGORITHMS

Below, you'll find common origami actions that we have turned into functions. Turn past the candy pages to find a program that calls those functions to instruct you on making a colorful treat bowl.

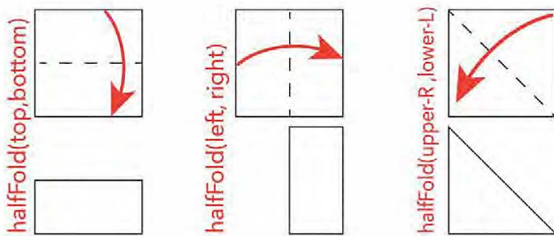
We have provided you with two pages of candy-themed paper to work with. Cut them along the dotted lines to make perfect squares. This will help all of the edges to line up in the end!



Function 1

halfFold(grabPoint, stopPoint)

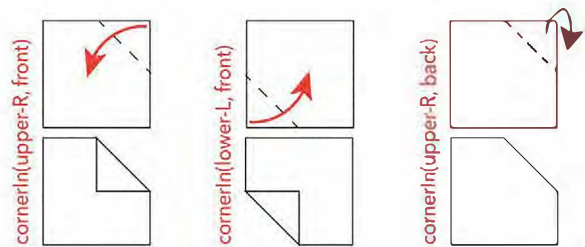
This function directs you to fold your paper forward exactly in half. The *grabPoint* tells you which edge is moving, and the *stopPoint* tells you where the grabPoint ends up.



Function 2

cornerIn(whichCorner, direction)

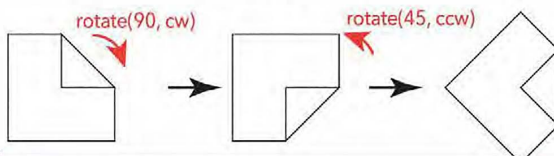
This has you fold one corner to the center of the paper. The corner you grab is the one in *whichCorner*, and *direction* tells you to fold to the front or back.



Function 3

rotate(degrees, direction)

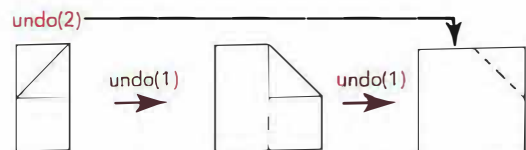
This function tells you how many *degrees* to turn your paper in either a clockwise (cw) or counterclockwise (ccw) *direction*.



Function 4

undo(numberOfSteps)

This function indicates the *number of steps* that you need to unfold your paper.



Now you know: The instructions inside the parentheses are called "parameters"



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continued...

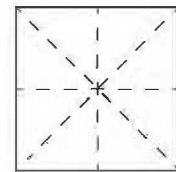


We've created a program below, using the functions defined earlier. See if you can follow along to make a special treat dish!

Don't worry if it seems hard at first. Take it one step at a time and ask for help if you need it. If you find yourself completely stuck, visit AlgorithmsMagazine.com for a demonstration.

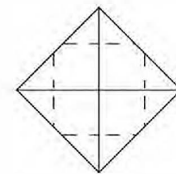
Treat Dish Program

- 1) halfFold(top, bottom)
- 2) undo(1)
- 3) halfFold(left, right)
- 4) undo(1)
- 5) halfFold(upper-R, lower-L)
- 6) undo(1)
- 7) halfFold(upper-L, lower-R)
- 8) undo(1)
- 9) cornerIn(upper-R, front)
- 10) cornerIn(upper-L, front)
- 11) cornerIn(lower-L, front)
- 12) cornerIn(lower-R, front)
- 13) cornerIn(upper-R, back)
- 14) cornerIn(upper-L, back)
- 15) cornerIn(lower-L, back)
- 16) cornerIn(lower-R, back)
- 17) Flip the paper over
- 18) halfFold(top, bottom)
- 19) Slip four fingers from one hand into each of the four pockets made by the corners.
- 20) Pinch your fingers together to spread out the pockets and create your dish!



Start with your paper in this position.

We're going to fold it four times just to make creases



Next, we need to fold all four corners into the front center, then take the new corners and fold them into the back center.



Finally, flip, fold and put your fingers in the pockets to shape the dish!

Algorithms Magazine



Cut along the dotted line



Cut along the dotted line

