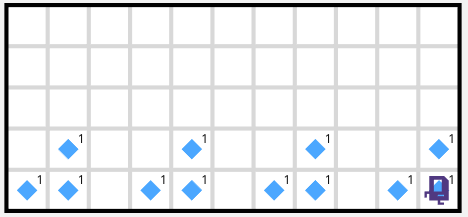
Karel Makes Waves

Write a program that has Karel draw four small "waves". Each wave is a triangle made up of three beepers. There is a gap between each wave. When karel is done the world should look like this:



Concepts:

This problem reviews basic control flow with Karel. It was much easier to solve if you defined a make\_wave() function. It also introduces a fence-post problem where you need to move between waves three times, but you need to draw four waves. Chapters: [Decomposition Chapter](https://compedu.stanford.edu/karel-reader/docs/python/en/chapter4.html) and the Fencepost bug part of the [While loop chapter](https://compedu.stanford.edu/karel-reader/docs/python/en/chapter6.html).

Example Solutions



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"""

There are many solutions to this problem. Here are a few

"""

# Example Solution 1

def main():

# make the first three waves

for i in range(3):

build\_wave()

# you need to move twice to go between waves

move()

move()

# because of the fencepost bug, we need a fourth wave

build\_wave()

def build\_wave():

put\_beeper()

move()

put\_beeper()

turn\_left()

move()

put\_beeper()

turn\_around()

move()

turn\_left()

# Example Solution 2

def main():

# you can also solve this problem with a while loop

while front\_is\_clear():

build\_wave()

# you might be facing a wall at this point!

if front\_is\_clear():

move()

move()

def build\_wave():

# same as in solution 1

What did the AI Think?

An algorithm read your program. It has some ideas! But you should take them with a grain of salt. Algorithms aren't as smart as people! Check out what the AI said to unlock the next question!

See your solution