

# Looping Dance Party

## It's Time to Dance!

At Patteron, Pancho loves blasting jazz music and dancing in the breezy air. Get ready to move with Pancho as you create your personalized dance loop routine!

## What are loops?

A **loop** is a programming structure that repeats a set of instructions until a certain condition is reached. In computer science, we use loops to **repeat actions** as many times as we need.



## Why Pancho loves loops:

At Patteron, Pancho loves using loops to dance to his favorite tunes. He writes down his routine on how to dance his classic *Pancho Swing*, *Twisted Bop*, then *Dynamic Dunk*, which he joyfully repeats 4 times. As you will discover later, Pancho loves loops because they help him **shorten** and **organize** his steps!

## Let's Get Movin'!

Today, you'll be making your own dance loop routine like Pancho has! Start by listing your three of your favorite dance moves below.

### My Top 3 Dance Moves:

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Awesome! Now, brainstorm a dance combo with your top 3 dance moves. In your dance instructions below, write your combo down 4 times. Each set should have the exact same instructions, since you will be repeating your dance combo every time!



Ex. Set 1: "Pancho Swing" "Twisted Bop" "Dynamic Dunk"  
Set 2: "Pancho Swing" "Twisted Bop" "Dynamic Dunk"  
Set 3: "Pancho Swing" "Twisted Bop" "Dynamic Dunk"  
Set 4: "Pancho Swing" "Twisted Bop" "Dynamic Dunk"

### My Dance Routine

**Set 1:** \_\_\_\_\_

**Set 2:** \_\_\_\_\_

**Set 3:** \_\_\_\_\_

**Set 4:** \_\_\_\_\_

### Consider this:

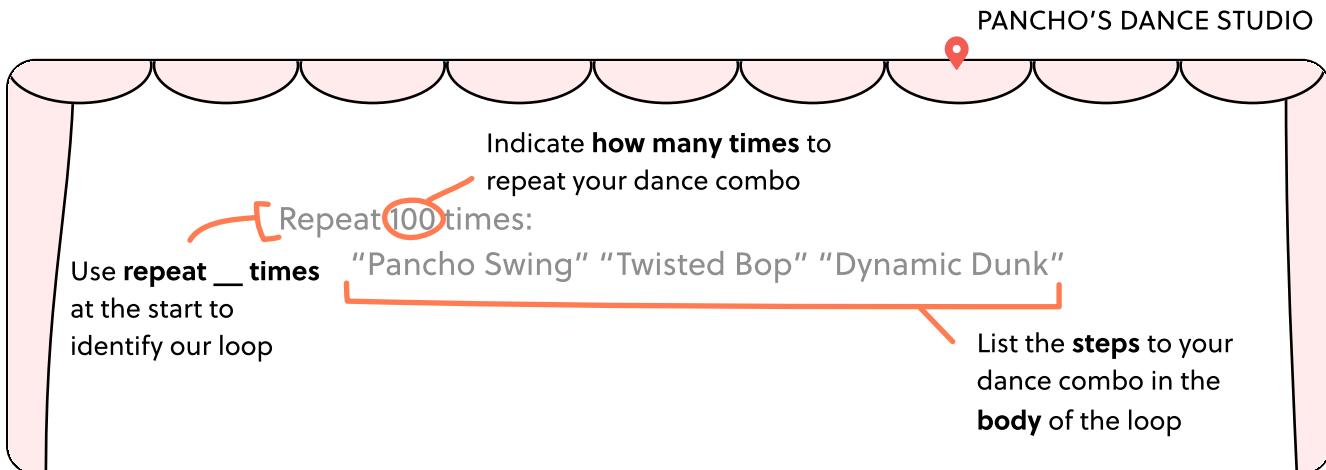
What if you were in the mood to dance and wanted to create instructions for repeating your dance combo **100 times**?

Imagine how much time writing out each dance move 100 times would take! Lucky for us, we can use **loops** to write out these instructions in much fewer lines.



## How to Make a Loop

Take a look inside Pancho's dance studio to learn how to write a loop! In this case, the above instructions will tell us to "Pancho Swing" "Twisted Bop" "Dynamic Dunk" 100 times.



## Your Turn!

Create your custom dance loop and perform this with a friend. You can change the repetitions, write new dance moves, and make this loop as crazy as you like.

Repeat \_\_\_\_\_ times:

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

## Reflection

Why do you think loops are important to use?

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