

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:

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:

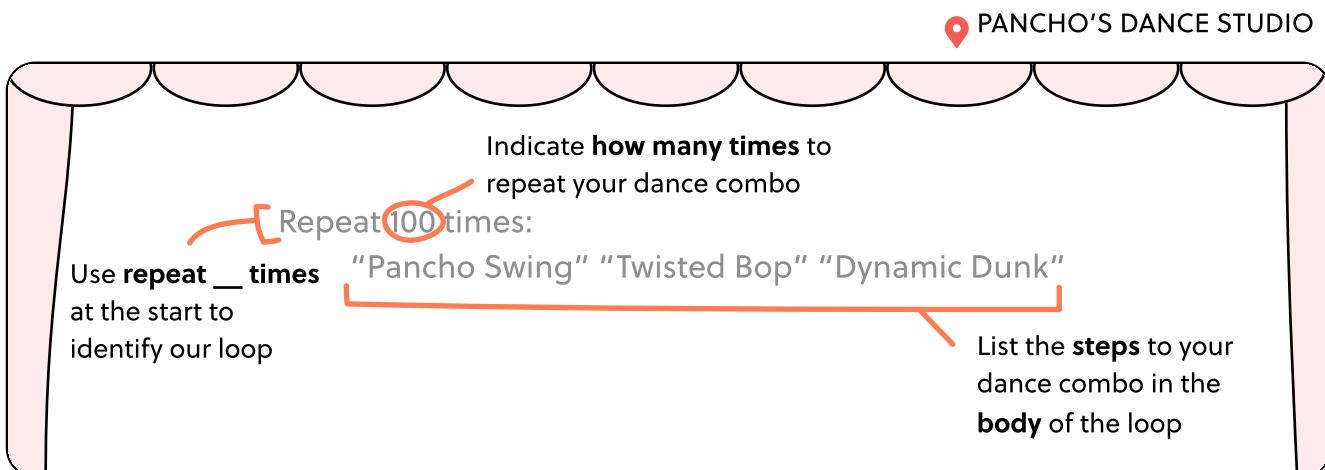
What if you were in the mood to dance and wanted to create instructions for repeating your dance combo **100 times**?

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?
