

# Treasure Hunt II: Finding Arceus

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## Introduction

In this task, I embarked on a quest to find the legendary Pokémon, Arceus, by traversing through various branches and commits in a Git repository. The objective was to locate the commit containing Arceus and merge it into the MASTER branch. This report outlines the steps taken and the Git commands used in the process.

## Process

### Step 1: Running the Script

The first step was to run the provided shell binary `script.sh.x` in my home directory. This script generated a C++ file named `question_4.cpp` and created a repository with multiple branches and commits.

```
$ ./script.sh.x
```

### Step 2: Cloning the Repository

I navigated to the generated repository and inspected its branches.

```
$ git branch -a
```

### Step 3: Traversing Branches to Find Arceus

I checked out each branch and examined the content of `question_4.cpp` to find the one containing Arceus.

```
$ git checkout branch_1
$ cat question_4.cpp

$ git checkout branch_2
$ cat question_4.cpp
```

```
$ git checkout branch_3
$ cat question_4.cpp
```

Upon inspecting `question_4.cpp` in `branch_2`, I found the ASCII picture of Arceus.



Figure 1: Arceus Image

#### Step 4: Merging the Correct Commit into MASTER Branch

Once I identified the correct branch, I created a `MASTER` branch and merged the commit from `branch_2` into `MASTER`.

```
$ git checkout -b MASTER
$ git merge branch_2
```

This operation successfully merged the commit containing Arceus into the `MASTER` branch. The commit code is `117bfa188acc1ff35ffc1ff6543719c61809c6d1`.

```
me23b073@ID2090:~$ git log
commit 117bfa188acc1ff35ffc1ff6543719c61809c6d1 (HEAD -> MASTER, branch_2)
Author: me23b073 <me23b073@id2090.itm.ac.in>
Date:   Fri May 24 18:36:27 2024 +0000

Commit #com+1
```

Figure 2: Git log

## Conclusion

Through a systematic traversal of branches and commits, I located the commit with Arceus in `branch_2` and successfully merged it into the `MASTER` branch.

The process involved running a provided script, inspecting branches, and using basic Git commands to navigate and merge the required commit.