

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.

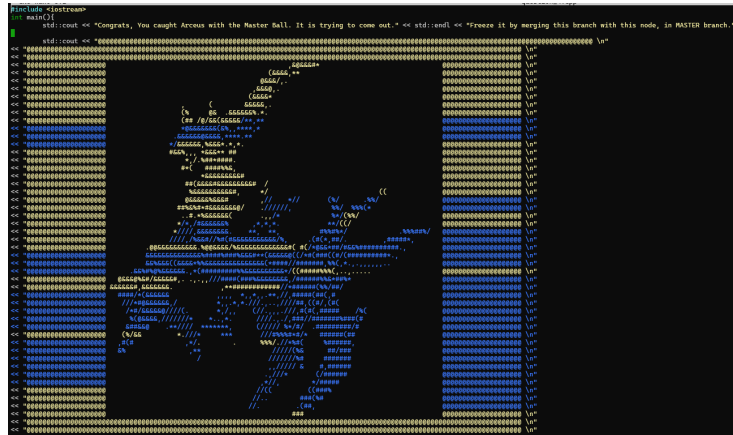


Figure 1: Arceus Image

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`.

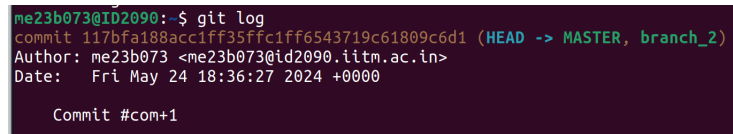


Figure 2: Git log

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.