

# Experiment 'p\_1\_5' Results

December 18, 2025

**Experiment outcome:** SUCCESS

**Bad responses:** 0

**Responses containing assume :** 0

**Resolution attempts:** 1

**Hard fails (resolution):** 0

**Soft fails (resolution):** 0

**Verification attempts:** 1

## Problem Specification

**Problem name:** p\_1\_5

**Natural language statement:** Write a method that returns the name Dave inside a box on the screen.

Do your best to approximate lines with characters such as | - +.

**Method signature:** p\_1\_5() returns (s : string)

## Ensures

- s == "+-----+\n| Dave |\n+-----+\n"

## GenAI interactions

Below you will find all interactions between the ‘user’ (program) and the ‘assistant’ (OpenAI).

### Program → GenAI

You are given the following task to perform in Dafny:

Write a method that returns the name Dave inside a box on the screen. Do your best to  
→ approximate lines with characters such as | - +.

The signature should be:

```
method p_1_5() returns (s : string)
```

The method should respect the following contract:

```
ensures s == "+-----+\n| Dave |\n+-----+\n"
```

Produce and show only the Dafny body of this method, including the curly braces that  
→ surround it. Do not show the signature nor contract. You must not use 'assume'  
→ anywhere in your code.

### GenAI → Program

**System fingerprint:**

**ID:** chatcmpl-Co4Ly2EE7UcPQdUrNnUrc9PPtZXq9

**Model:** gpt-5.1-chat-latest

**Created at:** 1766049170

**Finish reason:** stop

**Usage:** 286 tokens in, and 106 tokens out

```
{  
  s := "+-----+\n| Dave |\n+-----+\n";  
}
```

## Final Program

```
method p_1_5() returns (s : string)  
  ensures s == "+-----+\n| Dave |\n+-----+\n"  
{  
  s := "+-----+\n| Dave |\n+-----+\n";  
}
```

## Total Token Usage

**Input tokens:** 286

**Output tokens:** 106

**Reasoning tokens:** 64

**Sum of ‘total tokens’:** 392

## Experiment Timings

**Overall Experiment** started at 1766049171097, ended at 1766049175176, lasting 4079ms (4.08 seconds)

**Iteration #1** started at 1766049171098, ended at 1766049175176, lasting 4078ms (4.08 seconds)