

# 1 main — MIR Walkthrough

**Purpose:** TODO: Describe why this walkthrough exists

## 1.1 Source Context

```
    assert!(a == 'a');  
}
```

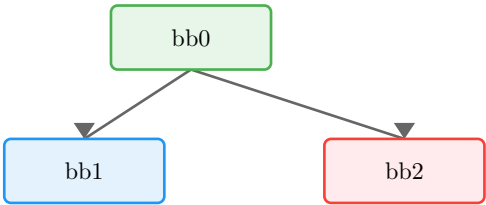
## 1.2 Function Overview

- **Function:** main
- **Basic blocks:** 3
- **Return type:** ()
- **Notable properties:**
  - Contains panic path
  - Has conditional branches

## 1.3 Locals

Local	Type	Notes
0	()	Return place
1	char	
2	!	

## 1.4 Control-Flow Overview



## 1.5 Basic Blocks

### 1.5.1 bb0 — entry

*Entry point of the function.*

MIR	Annotation
<code>\_1 = 97</code>	Load constant
<code>→ switch(move \_1) \[97→bb1; else→bb2\]</code>	Branch on move <code>\_1</code>

### 1.5.2 bb1 — return / success

*Normal return path.*

MIR	Annotation
<code>→ return</code>	Return from function

### 1.5.3 bb2 — panic path

*Panic/diverging path.*

MIR	Annotation
-----	------------

→ <code>\_2 = panic([16 bytes])</code>	Call panic
--	------------

## 1.6 Key Observations

TODO: Add bullet points summarizing what this MIR teaches

- 
- 

## 1.7 Takeaways

TODO: One or two sentences to generalize this example

