# 1 `main` — MIR Walkthrough

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

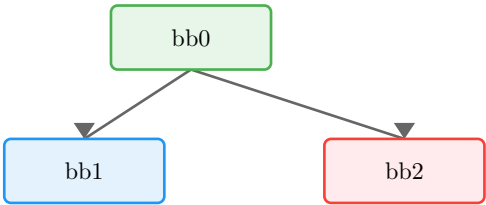## 1.1 Source Context

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

## 1.2 Function Overview
- **Function:** `main`
- **Basic blocks:** 3
- **Return type:** `()` `(0 bytes, align 1)`
- **Notable properties:**
  ‣ Contains panic path
  ‣ Has conditional branches

## 1.3 Locals

| Local | Type | Notes |
|---|---|---|
| 0 | `() (0 bytes, align 1)` | 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 |
|---|---|
| `_1 = 97` | Load constant |
| `→ switch(move _1) [97→bb1; else→bb2]` | Branch on move _1 |

### 1.5.2 bb1 — return / success
*Normal return path.*

| MIR | Annotation |
|---|---|
| `→ return` | Return from function |

### 1.5.3 bb2 — panic path
*Panic/diverging path.*

| MIR | Annotation |
|---|---|

| → _2 = panic([16 bytes]) | Call panic |
|---|---|

## 1.6 Key Observations

TODO: Add bullet points summarizing what this MIR teaches

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## 1.7 Takeaways

TODO: One or two sentences to generalize this example