

1 main — MIR Walkthrough

Purpose: TODO: Describe why this walkthrough exists

1.1 Source Context

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

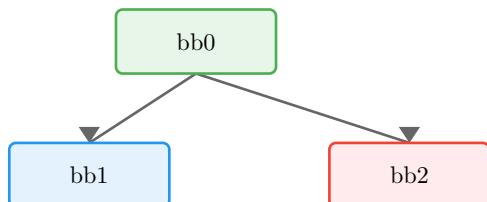
1.2 Function Overview

- **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
_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

