

DO-178C Static Analysis Report

Function: compute_sum

Complexity: 2, Branches: 1, Loops: 0, Returns: 1

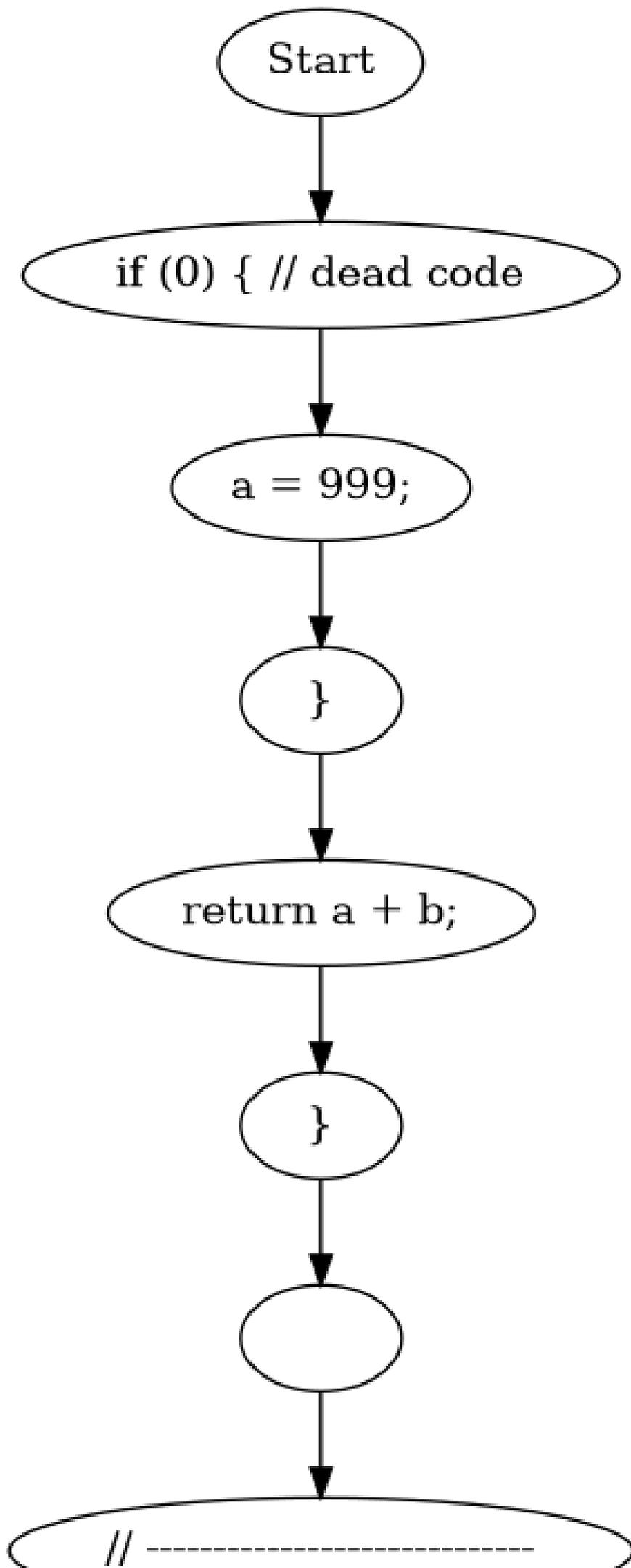
MISRA / Warnings:

None

Dead Code:

```
if (0) { // dead code
```

Control Flow Graph:



Function: process_array

Complexity: 3, Branches: 1, Loops: 1, Returns: 1

MISRA / Warnings:

None

Dead Code:

None

Control Flow Graph:

Start

```
int sum = 0; // variable name too short triggers MISRA
```

```
for (int i = 0; i < n; i++) {
```

```
if (arr[i] % 2 == 0) {
```

```
sum += arr[i];
```

```
} else {
```

```
sum -= arr[i];
```

```
}
```

```
}
```

```
return sum;
```

```
}
```

```
// -----
```

Function: unused_function

Complexity: 2, Branches: 1, Loops: 0, Returns: 1

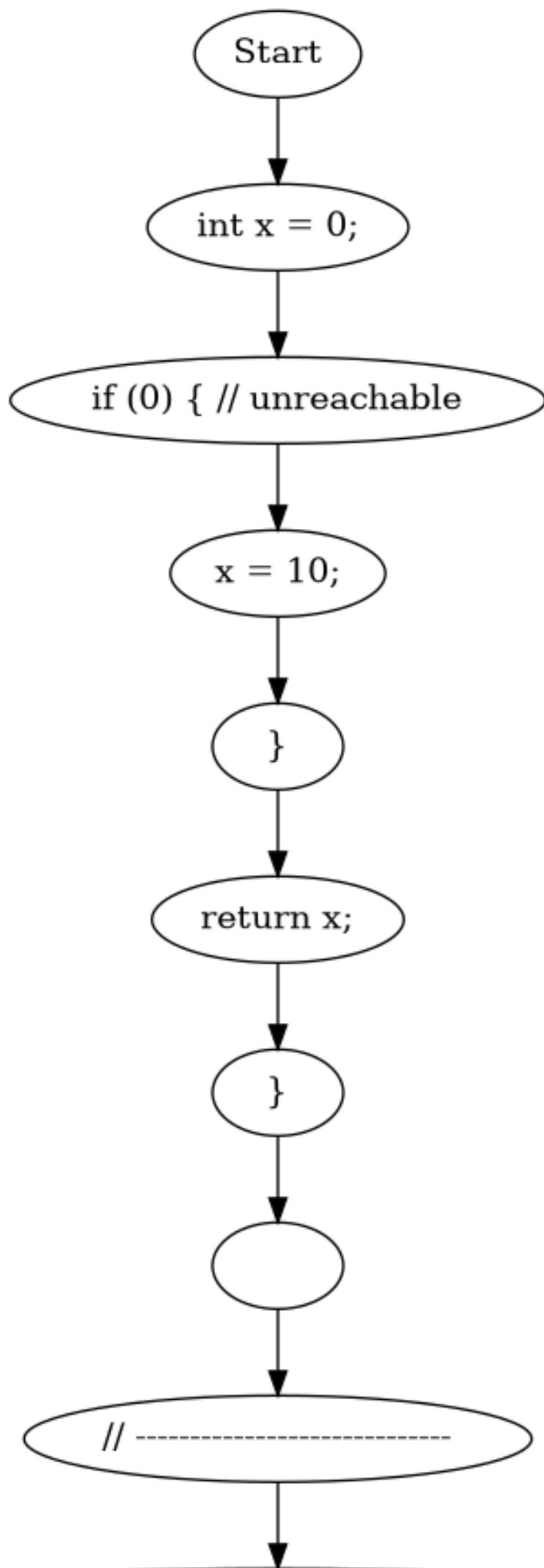
MISRA / Warnings:

None

Dead Code:

```
if (0) { // unreachable
```

Control Flow Graph:



Function: compute_magic

Complexity: 1, Branches: 0, Loops: 0, Returns: 1

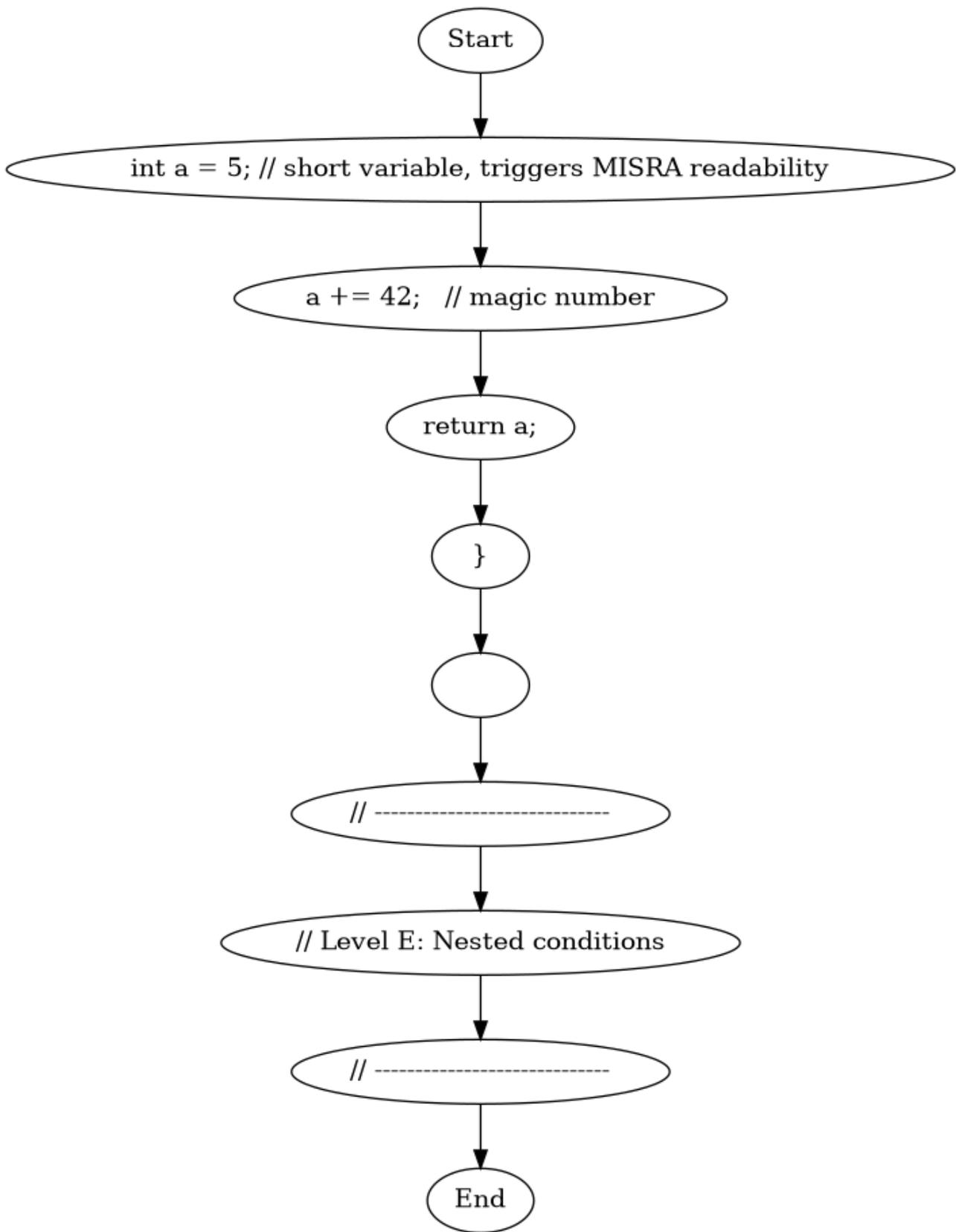
MISRA / Warnings:

None

Dead Code:

None

Control Flow Graph:



Function: nested_branches

Complexity: 5, Branches: 2, Loops: 0, Returns: 3

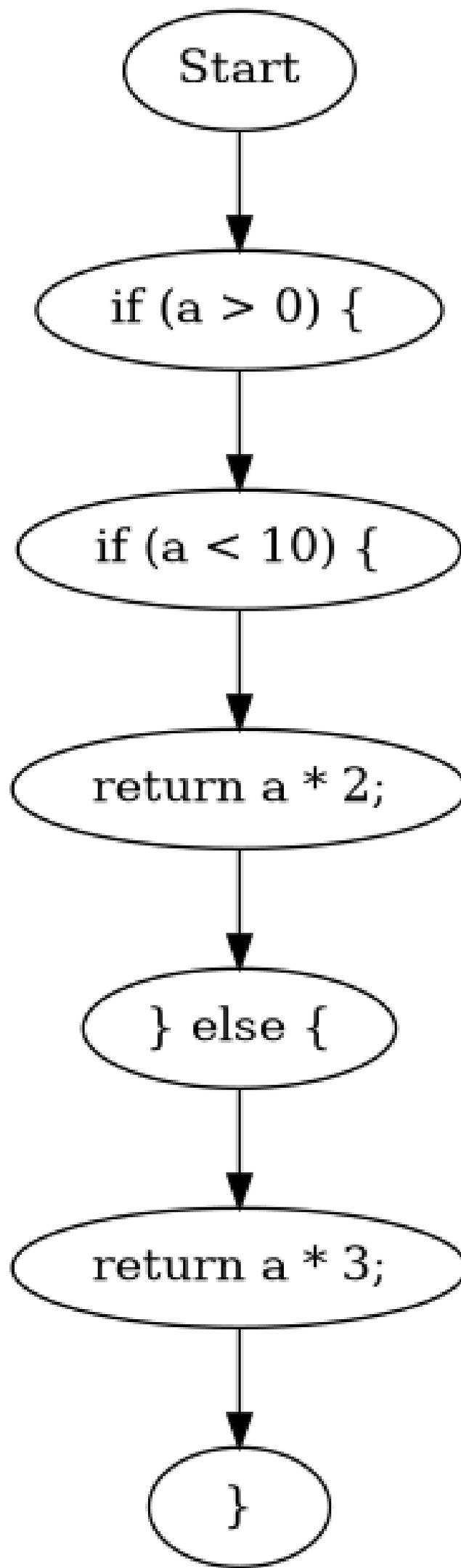
MISRA / Warnings:

None

Dead Code:

None

Control Flow Graph:



Function: multi_return

Complexity: 5, Branches: 2, Loops: 0, Returns: 3

MISRA / Warnings:

None

Dead Code:

None

Control Flow Graph:

Start

if (x == 0) return 0;

if (x == 1) return 1;

return x + 1;

}

Function: main

Complexity: 1, Branches: 0, Loops: 0, Returns: 1

MISRA / Warnings:

None

Dead Code:

None

Control Flow Graph:

