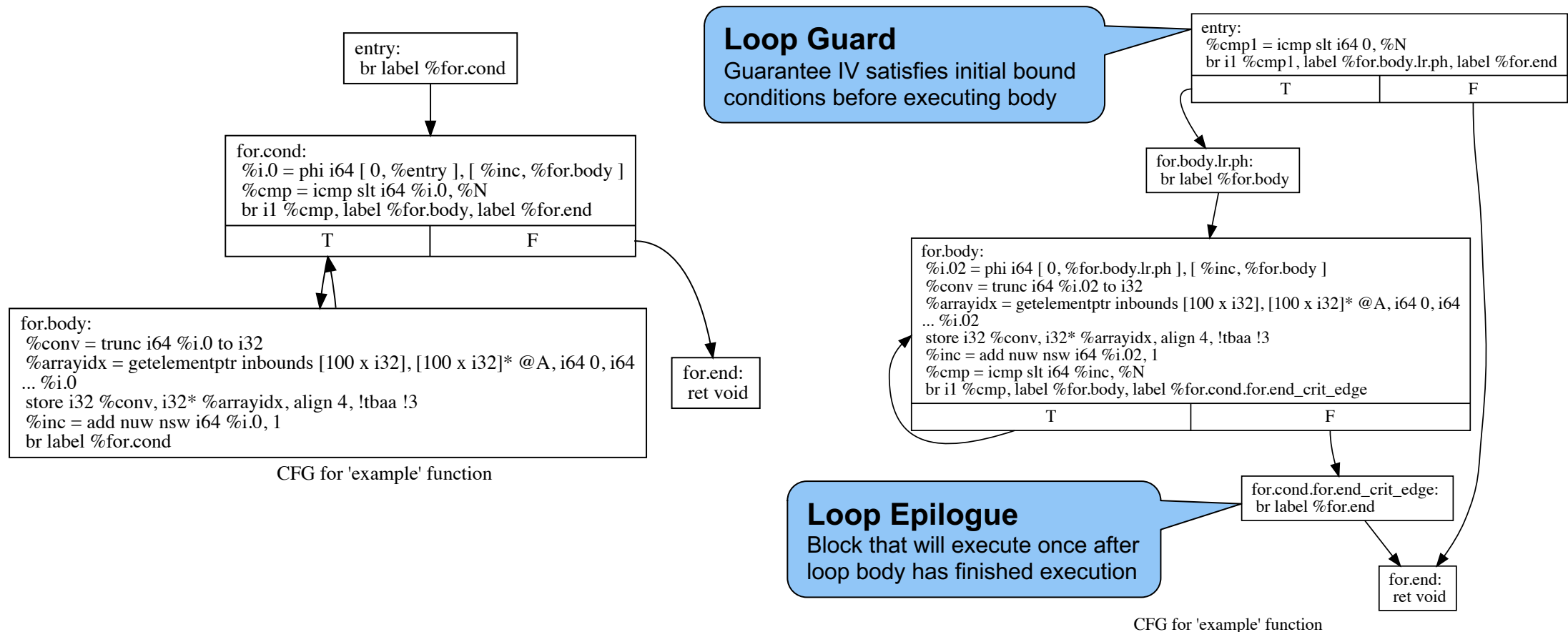


# Loop Rotation – Guarded Loops

```
int A[100];
void example(long N) {
    for (int i = 0; i < N; ++i)
        A[i] = i;
}
```

When compiler cannot prove loop body will execute at least once, it inserts a *guard*

It also inserts a loop epilogue, that will be executed once after the body is finished executing



CFG for 'example' function