

```
int A[1024];
void example() {
    for (int i = 0; i < N; i++)
        A[i] = i;
}
```

Preheader

A single edge to the header of the loop from outside of the loop.

Header

Single entry point to the loop that dominates all other blocks in the loop.

Exiting Block

The block within the loop that has successors outside of the loop. If multiple blocks have successors, this is null.

```
bb:
  br label %bb1
```

```
bb1:
  %indvars.iv = phi i64 [ %indvars.iv.next, %bb5 ], [ 0, %bb ]
  %exitcond = icmp ne i64 %indvars.iv, 1024
  br i1 %exitcond, label %bb3, label %bb2
```

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```
bb3:
  %tmp = getelementptr inbounds [1024 x i32], [1024 x i32]* @A, i64 0, i64
  ... %indvars.iv
  %tmp4 = trunc i64 %indvars.iv to i32
  store i32 %tmp4, i32* %tmp, align 4, !tbaa !3
  br label %bb5
```

Latch

Block that contains the branch back to the loop header.

```
bb5:
  %indvars.iv.next = add nuw nsw i64 %indvars.iv, 1
  br label %bb1
```

```
bb2:
  br label %bb6
```

```
bb6:
  ret void
```

Exit Block

The successor block of this loop. If the loop has multiple successors, this is null.

CFG for 'example' function