

```
for.cond52:                                ; preds = %for.inc61, %for.end50
      %23 = load i32, i32* %i22, align 4
      %cmp53 = icmp ult i32 %23, 100
      br i1 %cmp53, label %for.body54, label %for.end63
```

```
graph TD
    cond52["for.cond52:"] -- self-loop --> cond52
    cond52 --> body54["for.body54:"]
    body54 --> inc61["for.inc61:"]
    inc61 --> cond52
```

```
for.body54:                                ; preds = %for.cond52
      %24 = load i32, i32* %j51, align 4
      %idxprom55 = zext i32 %24 to i64
      %arrayidx56 = getelementptr inbounds [100 x i32], [100 x i32]* @_ZL1a, i64 0, i64 %idxprom55
      %25 = load i32, i32* %arrayidx56, align 4
      %26 = load i32, i32* %i22, align 4
      %idxprom57 = zext i32 %26 to i64
      %27 = load i32, i32* %j51, align 4
      %idxprom59 = zext i32 %27 to i64
      br label %for.inc61
```

```
for.inc61:                                ; preds = %for.body54
      %28 = load i32, i32* %i22, align 4
      %inc62 = add i32 %28, 1
      store i32 %inc62, i32* %i22, align 4
      br label %for.cond52
```