

[2/5]

```
for.cond:                                ; preds = %for.inc, %entry
    %0 = load i32, i32* %i, align 4
    %cmp = icmp ult i32 %0, 99
    br i1 %cmp, label %for.body, label %for.end
```

```
graph TD
    Entry(( )) --> for_cond[for.cond]
    for_cond --> for_body[for.body]
    for_body --> for_inc[for.inc]
    for_inc --> for_cond
```

[3/4]

```
for.body:                                ; preds = %for.cond
    %1 = load i32, i32* %i, align 4
    %2 = load i32, i32* %i, align 4
    %idxprom = zext i32 %2 to i64
    %arrayidx = getelementptr inbounds [100 x i32], [100 x i32]* %a, i64 0, i64 %idxprom
    store i32 %1, i32* %arrayidx, align 4
    %3 = load i32, i32* %i, align 4
    %add = add i32 %3, 1
    %4 = load i32, i32* %i, align 4
    %add1 = add i32 %4, 1
    %idxprom2 = zext i32 %add1 to i64
    %arrayidx3 = getelementptr inbounds [100 x i32], [100 x i32]* %a, i64 0, i64 %idxprom2
    store i32 %add, i32* %arrayidx3, align 4
    br label %for.inc
```

[0/1]

```
for.inc:                                ; preds = %for.body
    %5 = load i32, i32* %i, align 4
    %inc = add i32 %5, 1
    store i32 %inc, i32* %i, align 4
    br label %for.cond
```