

```
for.cond:                                ; preds = %for.inc, %entry
    %i.0 = phi i32 [ 0, %entry ], [ %inc, %for.inc ], !dbg !1306
    call void @llvm.dbg.value(metadata i32 %i.0, metadata !1302, metadata !DIExpression()), !dbg !1304
    %cmp = icmp slt i32 %i.0, 100, !dbg !1308
    br i1 %cmp, label %for.body, label %for.end, !dbg !1309
```

```
graph TD
    for_cond[for.cond] --> for_body[for.body]
    for_cond --> for_end[for.end]
    for_body --> for_inc[for.inc]
    for_inc --> for_cond
```

```
for.body:                                ; preds = %for.cond
    %sub = sub nsw i32 %i.0, 1, !dbg !1310
    %idxprom = sext i32 %sub to i64, !dbg !1312
    %arrayidx = getelementptr inbounds [100 x i32], [100 x i32]* %a, i64 0, i64 %idxprom, !dbg !1312
    %0 = load i32, i32* %arrayidx, align 4, !dbg !1312
    %idxprom1 = sext i32 %i.0 to i64, !dbg !1313
    %arrayidx2 = getelementptr inbounds [100 x i32], [100 x i32]* %a, i64 0, i64 %idxprom1, !dbg !1313
    store i32 %0, i32* %arrayidx2, align 4, !dbg !1314
    br label %for.inc, !dbg !1315
```

```
for.inc:                                ; preds = %for.body
    %inc = add nsw i32 %i.0, 1, !dbg !1316
    call void @llvm.dbg.value(metadata i32 %inc, metadata !1302, metadata !DIExpression()), !dbg !1304
    br label %for.cond, !dbg !1317, !llvm.loop !1318
```