

[2/5]

```
for.cond:                                ; preds = %for.inc, %entry
    %1 = load i32, i32* %i, align 4, !dbg !1286
    %cmp = icmp ult i32 %1, 100, !dbg !1288
    br i1 %cmp, label %for.body, label %for.end, !dbg !1289
```

```
graph TD
    B25["[2/5]  
for.cond:                                ; preds = %for.inc, %entry  
    %1 = load i32, i32* %i, align 4, !dbg !1286  
    %cmp = icmp ult i32 %1, 100, !dbg !1288  
    br i1 %cmp, label %for.body, label %for.end, !dbg !1289"]
    B34["[3/4]  
for.body:                                ; preds = %for.cond  
    %2 = load i32, i32* %i, align 4, !dbg !1290  
    %call = call i64 @_Z21compute_fibonacci_numi(i32 %2), !dbg !1292  
    %conv = trunc i64 %call to i32, !dbg !1292  
    %3 = load i32, i32* %i, align 4, !dbg !1293  
    %sub = sub nsw i32 %3, 1, !dbg !1294  
    %idxprom = sext i32 %sub to i64, !dbg !1295  
    %arrayidx = getelementptr inbounds i32, i32* %vla, i64 %idxprom, !dbg !1295  
    store i32 %conv, i32* %arrayidx, align 4, !dbg !1296  
    br label %for.inc, !dbg !1297"]
    B01["[0/1]  
for.inc:                                ; preds = %for.body  
    %4 = load i32, i32* %i, align 4, !dbg !1298  
    %inc = add nsw i32 %4, 1, !dbg !1298  
    store i32 %inc, i32* %i, align 4, !dbg !1298  
    br label %for.cond, !dbg !1299, !llvm.loop !1300"]
    B25 --> B34
    B25 --> B01
    B34 --> B01
    B01 --> B25
```

[3/4]

```
for.body:                                ; preds = %for.cond
    %2 = load i32, i32* %i, align 4, !dbg !1290
    %call = call i64 @_Z21compute_fibonacci_numi(i32 %2), !dbg !1292
    %conv = trunc i64 %call to i32, !dbg !1292
    %3 = load i32, i32* %i, align 4, !dbg !1293
    %sub = sub nsw i32 %3, 1, !dbg !1294
    %idxprom = sext i32 %sub to i64, !dbg !1295
    %arrayidx = getelementptr inbounds i32, i32* %vla, i64 %idxprom, !dbg !1295
    store i32 %conv, i32* %arrayidx, align 4, !dbg !1296
    br label %for.inc, !dbg !1297
```

[0/1]

```
for.inc:                                ; preds = %for.body
    %4 = load i32, i32* %i, align 4, !dbg !1298
    %inc = add nsw i32 %4, 1, !dbg !1298
    store i32 %inc, i32* %i, align 4, !dbg !1298
    br label %for.cond, !dbg !1299, !llvm.loop !1300
```