```
[10/11]
                                                          while.body:
                                                                                        ; preds = %while.cond
                                                                  %conv = sext i32 %i.0 to i64, !dbg !1317
                                                              %mul = mul i64 %product.1, %conv, !dbg !1318
                                        call void @llvm.dbg.value(metadata i64 %mul, metadata !1301, metadata !DIExpression()), !dbg !1302
                                                              %cmp2 = icmp ugt i64 %mul, 500000, !dbg !1319
                                                            br i1 %cmp2, label %if.then, label %if.end, !dbg !1321
                                                                                [5/12]
                                                                                      ; preds = %if.end, %for.body
                                                  %product.1 = phi i64 [ %product.0, %for.body ], [ %mul, %if.end ], !dbg !1313
                                       call void @llvm.dbg.value(metadata i64 %product.1, metadata !1301, metadata !DIExpression()), !dbg !1302
                                                                 %idxprom = sext i32 %i.0 to i64, !dbg !1315
                                          %arrayidx = getelementptr inbounds [100 x i32], [100 x i32]* %a, i64 0, i64 %idxprom, !dbg !1315
                                                              %0 = load i32, i32* %arrayidx, align 4, !dbg !1315
                                                                  %cmp1 = icmp sgt i32 %0, 0, !dbg !1316
                                                        br i1 %cmp1, label %while.body, label %while.end, !dbg !1311
                                                           [4/13]
                          for.cond:
                                                                    ; preds = %for.inc, %entry
                            %i.0 = phi i32 [ 0, %entry ], [ %inc, %for.inc ], !dbg !1307
                     %product.0 = phi i64 [ 1, %entry ], [ %product.1, %for.inc ], !dbg !1302
call void @llvm.dbg.value(metadata i64 %product.0, metadata !1301, metadata !DIExpression()), !dbg !1302
   call void @llvm.dbg.value(metadata i32 %i.0, metadata !1303, metadata !DIExpression()), !dbg !1305
                                     %cmp = icmp ule i32 %i.0, 100, !dbg !1309
                              br i1 %cmp, label %for.body, label %for.end, !dbg !1310
                                                            [2/3]
                             for.body:
                                                                       ; preds = %for.cond
                                            br label %while.cond, !dbg !1311
```

```
if.end: ; preds = %while.body
    %idxprom4 = sext i32 %i.0 to i64, !dbg !1324

%arrayidx5 = getelementptr inbounds [100 x i32], [100 x i32]* %a, i64 0, i64 %idxprom4, !dbg !1324

%1 = load i32, i32* %arrayidx5, align 4, !dbg !1325
    %dec = add nsw i32 %1, -1, !dbg !1325

store i32 %dec, i32* %arrayidx5, align 4, !dbg !1325

br label %while.cond, !dbg !1311, !llvm.loop !1326
```

while.end: [8/9]
while.end: ; preds = %while.cond
br label %for.inc, !dbg !1328

for.inc: ; preds = %while.end
%inc = add nsw i32 %i.0, 1, !dbg !1329
call void @llvm.dbg.value(metadata i32 %inc, metadata !1303, metadata !DIExpression()), !dbg !1305
br label %for.cond, !dbg !1330, !llvm.loop !1331