for.cond:

; preds = %for.inc, %entry

%m.0 = phi i32 [0, %entry], [%inc, %for.inc], !dbg!1311 call void @llvm.dbg.value(metadata i32 %m.0, metadata !1307, metadata !DIExpression()), !dbg !1309

br i1 %cmp, label %for.body, label %for.end, !dbg !1314

%cmp = icmp slt i32 %m.0, 5, !dbg !1313

%a = alloca [10 x [10 x [10 x [5 x i32]]]], align 16

call void @llvm.dbg.declare(metadata [10 x [10 x [10 x [5 x i32]]]] * %a, metadata !1293, metadata !DIExpression()), !dbg !1298 call void @llvm.dbg.declare(metadata !21, metadata !1299, metadata !DIExpression()), !dbg !1302 call void @llvm.dbg.value(metadata i32 0, metadata !1303, metadata !DIExpression()), !dbg !1304 call void @llvm.dbg.value(metadata i32 1, metadata !1305, metadata !DIExpression()), !dbg !1306 call void @llvm.dbg.value(metadata i32 0, metadata !1307, metadata !DIExpression()), !dbg !1309 br label %for.cond, !dbg !1310

; preds = % for.condfor.end: ret i32 0, !dbg !1331

for.body:

; preds = % for .cond

%idxprom = sext i32 0 to i64, !dbg !1317

%arrayidx = getelementptr inbounds [10 x [10 x [10 x [5 x i32]]]], [10 x [10 x [10 x [5 x i32]]]] * %a, i64 0, i64 %idxprom, !dbg !1317

%arrayidx2 = getelementptr inbounds [10 x [10 x [5 x i32]]], [10 x [10 x [5 x i32]]]* %arrayidx, i64 0, i64 %idxprom1, !dbg !1317 %idxprom3 = sext i32 1 to i64, !dbg !1317

%idxprom5 = sext i32 %m.0 to i64, !dbg !1317

%0 = load i32, i32* %arrayidx6, align 4, !dbg !1317

 $% \text{arrayidx } 10 = \text{getelementptr inbounds } [10 \times [10 \times [5 \times i32]]], [10 \times [10 \times [5 \times i32]]] * \% \text{arrayidx } 8, i64 0, i64 \% idxprom 9, !dbg !1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1320 | 1$

%arrayidx12 = getelementptr inbounds [10 x [5 x i32]], [10 x [5 x i32]]* %arrayidx10, i64 0, i64 %idxprom11, !dbg !1320

%arrayidx14 = getelementptr inbounds [5 x i32], [5 x i32]* %arrayidx12, i64 0, i64 %idxprom13, !dbg !1320

call void @llvm.dbg.value(metadata i32 2, metadata !1315, metadata !DIExpression()), !dbg !1316

%idxprom15 = sext i32 0 to i64, !dbg !1322

%idxprom17 = sext i32 1 to i64, !dbg !1322

%arrayidx18 = getelementptr inbounds [10 x [10 x [5 x i32]]], [10 x [10 x [5 x i32]]]* %arrayidx16, i64 0, i64 %idxprom17, !dbg !1322

%arrayidx22 = getelementptr inbounds [5 x i32], [5 x i32]* %arrayidx20, i64 0, i64 %idxprom21, !dbg !1322

%arrayidx25 = getelementptr inbounds [10 x [10 x [10 x [5 x i32]]]], [10 x [10 x [10 x [5 x i32]]]]* %a, i64 0, i64 %idxprom24, !dbg !1324 %idxprom26 = sext i32 1 to i64, !dbg !1324

%idxprom30 = sext i32 %m.0 to i64, !dbg !1324

store i32 %sub23, i32* %arrayidx31, align 4, !dbg !1325 br label %for.inc, !dbg !1326

call void @llvm.dbg.value(metadata i32 1, metadata !1315, metadata !DIExpression()), !dbg !1316

%idxprom1 = sext i32 1 to i64, !dbg !1317

%arrayidx4 = getelementptr inbounds [10 x [5 x i32]], [10 x [5 x i32]]* %arrayidx2, i64 0, i64 %idxprom3, !dbg !1317

%arrayidx6 = getelementptr inbounds [5 x i32], [5 x i32]* %arrayidx4, i64 0, i64 %idxprom5, !dbg !1317

%sub = sub nsw i32 %0, 100, !dbg !1319

%idxprom7 = sext i32 0 to i64, !dbg !1320

 $% \text{arrayidx8} = \text{getelementptr inbounds} [10 \times [10 \times [10 \times [5 \times i32]]]], [10 \times [10 \times [5 \times i32]]] * \% a, i64 0, i64 % idxprom 7, !dbg !1320$ %idxprom9 = sext i32 1 to i64, !dbg !1320

%idxprom11 = sext i32 1 to i64, !dbg !1320

%idxprom13 = sext i32 %m.0 to i64, !dbg !1320

store i32 %sub, i32* %arrayidx14, align 4, !dbg !1321

%arrayidx16 = getelementptr inbounds [10 x [10 x [10 x [5 x i32]]]], [10 x [10 x [10 x [5 x i32]]]]* %a, i64 0, i64 %idxprom15, !dbg !1322

%idxprom19 = sext i32 2 to i64, !dbg !1322

%arrayidx20 = getelementptr inbounds [10 x [5 x i32]], [10 x [5 x i32]]* %arrayidx18, i64 0, i64 %idxprom19, !dbg !1322 %idxprom21 = sext i32 %m.0 to i64, !dbg !1322

%1 = load i32, i32* %arrayidx22, align 4, !dbg !1322

%sub23 = sub nsw i32 %1, 200, !dbg !1323

%idxprom24 = sext i32 0 to i64, !dbg !1324

%arrayidx27 = getelementptr inbounds [10 x [10 x [5 x i32]]], [10 x [10 x [5 x i32]]]* %arrayidx25, i64 0, i64 %idxprom26, !dbg !1324 %idxprom28 = sext i32 2 to i64, !dbg !1324

%arrayidx29 = getelementptr inbounds [10 x [5 x i32]], [10 x [5 x i32]]* %arrayidx27, i64 0, i64 %idxprom28, !dbg !1324

%arrayidx31 = getelementptr inbounds [5 x i32], [5 x i32]* %arrayidx29, i64 0, i64 %idxprom30, !dbg !1324

for.inc:

; preds = %for.body

%inc = add nsw i32 %m.0, 1, !dbg !1327 call void @llvm.dbg.value(metadata i32 %inc, metadata !1307, metadata !DIExpression()), !dbg !1309 br label %for.cond, !dbg !1328, !llvm.loop !1329