for.cond1: ; preds = %for.inc21, %for.body %j.0 = phi i32 [0, %for.body], [%inc22, %for.inc21], !dbg !991 call void @llvm.dbg.value(metadata i32 %j.0, metadata !986, metadata !DIExpression()), !dbg !987 %cmp2 = icmp slt i32 %j.0, 5, !dbg !993 br i1 %cmp2, label %for.body3, label %for.end23, !dbg !994 [11/12] for.cond4: ; preds = %for.inc, %for.body3 preds = % for .end for.inc21: [9/10] ; preds = % for.cond1%k.0 = phi i32 [ 0, %for.body3 ], [ %inc, %for.inc ], !dbg !1000 for.body3: %inc22 = add nsw i32 %i.0, 1, !dbg !1018 for.end: ; preds = % for.cond4 call void @llvm.dbg.value(metadata i32 0, metadata !995, metadata !DIExpression()), !dbg !996 call void @llvm.dbg.value(metadata i32 %k.0, metadata !995, metadata !DIExpression()), !dbg !996 call void @llvm.dbg.value(metadata i32 %inc22, metadata !986, metadata !DIExpression()), !dbg !987 br label %for.inc21, !dbg !1017 br label %for.cond4, !dbg !997 %cmp5 = icmp slt i32 %k.0, 100, !dbg !1002 br label %for.cond1, !dbg !1019, !llvm.loop !1020 br i1 %cmp5, label %for.body6, label %for.end, !dbg !1003 for.body6: ; preds = % for.cond4 %mul = mul nsw i32 %i.0, %j.0, !dbg !1004 %mul7 = mul nsw i32 %mul, %k.0, !dbg !1006 %idxprom = sext i32 %k.0 to i64, !dbg !1007 % arrayidx = getelementptr inbounds  $[100 \times [10 \times [5 \times [10 \times i32]]]]$ ,  $[100 \times [10 \times [5 \times [10 \times i32]]]]$ \* % a, i64 0, i64 % idxprom, !dbg !1007 %idxprom8 = sext i32 %i.0 to i64, !dbg !1007 %arrayidx9 = getelementptr inbounds [10 x [5 x [10 x i32]]], [10 x [5 x [10 x i32]]]\* %arrayidx, i64 0, i64 %idxprom8, !dbg !1007 %add = add nsw i32 %j.0, 1, !dbg !1008 [0/1] %idxprom10 = sext i32 %add to i64, !dbg !1007 %arrayidx11 = getelementptr inbounds [5 x [10 x i32]], [5 x [10 x i32]]\* %arrayidx9, i64 0, i64 %idxprom10, !dbg !1007 ; preds = % for.body6 for.inc: %arrayidx12 = getelementptr inbounds [10 x i32], [10 x i32]\* %arrayidx11, i64 0, i64 0, !dbg !1007 %inc = add nsw i32 %k.0, 1, !dbg !1013 %0 = load i32, i32\* %arrayidx12, align 8, !dbg !1007 call void @llvm.dbg.value(metadata i32 %inc, metadata !995, metadata !DIExpression()), !dbg !996 br label %for.cond4, !dbg !1014, !llvm.loop !1015 %mul13 = mul nsw i32 %mul7, %0, !dbg !1009 %idxprom14 = sext i32 %k.0 to i64, !dbg !1010 %arrayidx15 = getelementptr inbounds [100 x [10 x [5 x [10 x i32]]]], [100 x [10 x [5 x [10 x i32]]]\* %a, i64 0, i64 %idxprom14, !dbg !1010 %idxprom16 = sext i32 %i.0 to i64, !dbg !1010 %arrayidx17 = getelementptr inbounds [10 x [5 x [10 x i32]]], [10 x [5 x [10 x i32]]]\* %arrayidx15, i64 0, i64 %idxprom16, !dbg !1010 %idxprom18 = sext i32 %j.0 to i64, !dbg !1010  $% = \text{getelementptr inbounds} [5 \times [10 \times i32]], [5 \times [10 \times i32]] * % = \text{getelementptr inbounds} [5 \times [10 \times i32]] * % = \text{getelementp$ %arrayidx20 = getelementptr inbounds [10 x i32], [10 x i32]\* %arrayidx19, i64 0, i64 0, !dbg !1010 store i32 %mul13, i32\* %arrayidx20, align 8, !dbg !1011 br label %for.inc, !dbg !1012