call void @llvm.dbg.value(metadata i32 %j.0, metadata !966, metadata !DIExpression()), !dbg !969 %cmp2 = icmp slt i32 %j.0, 10, !dbg !973 br i1 %cmp2, label %for.body3, label %for.end21, !dbg !974 [1/6] ; preds = %for.inc, %for.body3 [11/12] for.cond4: [7/8] for.body3: ; preds = % for.cond1%k.0 = phi i32 [ 1, %for.body3 ], [ %inc, %for.inc ], !dbg !980 for.end: ; preds = % for.cond4call void @llvm.dbg.value(metadata i32 1, metadata !975, metadata !DIExpression()), !dbg !978 call void @llvm.dbg.value(metadata i32 %k.0, metadata !975, metadata !DIExpression()), !dbg !978 br label %for.inc19, !dbg !999 br label %for.cond4, !dbg !979 %cmp5 = icmp slt i32 %k.0, 5, !dbg !982 br i1 %cmp5, label %for.body6, label %for.end, !dbg !983 [4/5] for.body6: ; preds = %for.cond4 %add = add nsw i32 %i.0, %j.0, !dbg !984 %add7 = add nsw i32 %add, %k.0, !dbg !986 %div = sdiv i32 %add7, 3, !dbg !987 call void @llvm.dbg.value(metadata i32 %div, metadata !988, metadata !DIExpression()), !dbg !989 %idxprom = sext i32 %i.0 to i64, !dbg !990 %arrayidx = getelementptr inbounds [100 x [10 x [5 x i32]]], [100 x [10 x [5 x i32]]]\* %a, i64 0, i64 %idxprom, !dbg !990 %idxprom8 = sext i32 %j.0 to i64, !dbg !990 [2/3] %arrayidx9 = getelementptr inbounds [10 x [5 x i32]], [10 x [5 x i32]]\* %arrayidx, i64 0, i64 %idxprom8, !dbg !990 ; preds = % for.body6 for.inc: %idxprom10 = sext i32 %k.0 to i64, !dbg !990 %inc = add nsw i32 %k.0,  $\bar{1}$ , !dbg !995 %arrayidx11 = getelementptr inbounds [5 x i32], [5 x i32]\* %arrayidx9, i64 0, i64 %idxprom10, !dbg !990 call void @llvm.dbg.value(metadata i32 %inc, metadata !975, metadata !DIExpression()), !dbg !978 %0 = load i 32, i 32\* % arrayid x 11, align 4, !dbg !990br label %for.cond4, !dbg !996, !llvm.loop !997 %add12 = add nsw i32 %0, %div, !dbg !991 %idxprom13 = sext i32 %i.0 to i64, !dbg !992 % arrayidx 14 = getelementptr inbounds [100 x [10 x [5 x i32]]], [100 x [10 x [5 x i32]]] \* % a, i64 0, i64 % idxprom 13, !dbg !992%idxprom15 = sext i32 %j.0 to i64, !dbg !992 %arrayidx16 = getelementptr inbounds  $[10 \times [5 \times i32]]$ ,  $[10 \times [5 \times i32]]$ \* %arrayidx14, i64 0, i64 %idxprom15, !dbg !992 %idxprom17 = sext i32 %k.0 to i64, !dbg !992 % arrayidx 18 = getelementptr inbounds [5 x i32], [5 x i32] \* % arrayidx 16, i64 0, i64 % idxprom 17, !dbg !992 store i32 %add12, i32\* %arrayidx18, align 4, !dbg !993 br label %for.inc, !dbg !994

for.cond1:

; preds = %for.inc19, %for.body

%j.0 = phi i32 [ 0, %for.body ], [ %inc20, %for.inc19 ], !dbg !971

[9/10]

for.inc19:

%inc20 = add nsw i32 %j.0, 1, !dbg !1000

; preds = % for .end

call void @llvm.dbg.value(metadata i32 %inc20, metadata !966, metadata !DIExpression()), !dbg !969 br label %for.cond1, !dbg !1001, !llvm.loop !1002