for.cond4: ; preds = %for.inc, %for.body3 %k.0 = phi i32 [1, %for.body3], [%inc, %for.inc], !dbg !980 call void @llvm.dbg.value(metadata i32 %k.0, metadata !975, metadata !DIExpression()), !dbg !978 %cmp5 = icmp slt i32 %k.0, 5, !dbg !982 br i1 %cmp5, label %for.body6, label %for.end, !dbg !983

```
%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
     %arrayidx9 = getelementptr inbounds [10 x [5 x i32]], [10 x [5 x i32]]* %arrayidx, i64 0, i64 %idxprom8, !dbg !990
                                       %idxprom10 = sext i32 %k.0 to i64, !dbg !990
          %arrayidx11 = getelementptr inbounds [5 x i32], [5 x i32]* %arrayidx9, i64 0, i64 %idxprom10, !dbg !990
                                    \%0 = \text{load i} 32, i 32* \% \text{arrayid} x 11, align 4, !dbg !990
                                        %add12 = add nsw i32 %0, %div, !dbg !991
                                       %idxprom13 = sext i32 %i.0 to i64, !dbg !992
%arrayidx14 = getelementptr inbounds [100 x [10 x [5 x i32]]], [100 x [10 x [5 x i32]]]* %a, i64 0, i64 %idxprom13, !dbg !992
                                       %idxprom15 = sext i32 %j.0 to i64, !dbg !992
  %arrayidx16 = getelementptr inbounds [10 x [5 x i32]], [10 x [5 x i32]]* %arrayidx14, i64 0, i64 %idxprom15, !dbg !992
                                       %idxprom17 = sext i32 %k.0 to i64, !dbg !992
         %arrayidx18 = getelementptr inbounds [5 x i32], [5 x i32]* %arrayidx16, i64 0, i64 %idxprom17, !dbg !992
                                  store i32 %add12, i32* %arrayidx18, align 4, !dbg !993
                                                br label %for.inc, !dbg !994
```

; preds = % for.cond4

for.body6:

for.inc: ; preds = %for.body6
%inc = add nsw i32 %k.0, 1, !dbg !995
call void @llvm.dbg.value(metadata i32 %inc, metadata !975, metadata !DIExpression()), !dbg !978
br label %for.cond4, !dbg !996, !llvm.loop !997