[2/5]

```
for.cond4: ; preds = %for.inc, %for.body3
%k.0 = phi i32 [ 0, %for.body3 ], [ %inc, %for.inc ], !dbg !1000
call void @llvm.dbg.value(metadata i32 %k.0, metadata !995, metadata !DIExpression()), !dbg !996
%cmp5 = icmp slt i32 %k.0, 100, !dbg !1002
br i1 %cmp5, label %for.body6, label %for.end, !dbg !1003
```

```
[3/4]
                                       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 x [10 x [5 x [10 x i32]]]], [100 x [10 x [5 x [10 x 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
                                            %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
                    %arrayidx12 = getelementptr inbounds [10 x i32], [10 x i32]* %arrayidx11, i64 0, i64 0, !dbg !1007
                                          %0 = load i32, i32* %arrayidx12, align 8, !dbg !1007
                                             %mul13 = mul nsw i32 %mul7, %0, !dbg !1009
                                             %idxprom 14 = sext i 32 %k.0 to i 64, !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
         %arrayidx19 = getelementptr inbounds [5 x [10 x i32]], [5 x [10 x i32]]* %arrayidx17, i64 0, i64 %idxprom18, !dbg !1010
                    %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
```

[0/1]

for.inc: ; preds = %for.body6

%inc = add nsw i32 %k.0, 1, !dbg !1013

call void @llvm.dbg.value(metadata i32 %inc, metadata !995, metadata !DIExpression()), !dbg !996

br label %for.cond4, !dbg !1014, !llvm.loop !1015