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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

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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
      %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
      %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

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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

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