```
entry:
           %retval = alloca i32, align 4
           %a = alloca i32, align 4
           %b = alloca i32, align 4
           %c = alloca i32, align 4
           %d = alloca i32, align 4
           %x = alloca i32, align 4
           %y = alloca i32, align 4
           %z = alloca i32, align 4
           store i32 0, i32* %retval, align 4
           call void @llvm.dbg.declare(metadata i32* %a, metadata !43, metadata
           ...!DIExpression()), !dbg!44
           store i32 0, i32* %a, align 4, !dbg !44
           call void @llvm.dbg.declare(metadata i32* %b, metadata !45, metadata
           ...!DIExpression()),!dbg!46
           store i32 -1, i32* %b, align 4, !dbg !46
           call void @llvm.dbg.declare(metadata i32* %c, metadata !47, metadata
           ... !DIExpression()), !dbg !48
           store i32 10, i32* %c, align 4, !dbg !48
           call void @llvm.dbg.declare(metadata i32* %d, metadata !49, metadata
           ...!DIExpression()), !dbg !50
           store i32 11, i32* %d, align 4, !dbg !50
           call void @llvm.dbg.declare(metadata i32* %x, metadata !51, metadata
           ...!DIExpression()), !dbg!52
           store i32 12, i32* %x, align 4, !dbg !52
           call void @llvm.dbg.declare(metadata i32* %y, metadata !53, metadata
           ...!DIExpression()), !dbg!54
           store i32 0, i32* %y, align 4, !dbg !54
           call void @llvm.dbg.declare(metadata i32* %z, metadata !55, metadata
           ... !DIExpression()), !dbg !56
           store i32 4, i32* %z, align 4, !dbg !56 %0 = load i32, i32* %a, align 4, !dbg !57
           %1 = load i32, i32* %d, align 4, !dbg !59
           %cmp = icmp slt i32 %0, %1, !dbg !60
           %2 = zext i1 %cmp to i32
           br label %land.lhs.true, !dbg !61
                  land.lhs.true:
                  %3 = load i32, i32* %c, align 4, !dbg !62
                  %4 = load i32, i32* %b, align 4, !dbg !63
                  %cmp1 = icmp sge i32 %3, %4, !dbg !64
                  %5 = zext i1 %cmp1 to i32
                  \%6 = \text{and } i32 \%2, \%5
                  \%7 = \text{trunc i} 32 \%6 \text{ to i} 1
                  br i1 %7, label %if.then, label %if.else, !dbg !65, !prof !66
                               T
                                                              F
                                                  if.else:
  if.then:
                                                  %9 = load i32, i32* %x, align 4, !dbg !71
   %8 = load i32, i32* %x, align 4, !dbg !67
                                                  %add = add nsw i32 %9, 1, !dbg !73
   store i32 %8, i32* %y, align 4, !dbg !69
                                                  store i32 %add, i32* %y, align 4, !dbg !74
   br label %if.end, !dbg !70
                                                  br label %if.end
              if.end:
              %10 = load i32, i32* %a, align 4, !dbg !75
              %11 = load i32, i32* %d, align 4, !dbg !77
              %cmp2 = icmp slt i32 %10, %11, !dbg !78
              %conv = zext i1 %cmp2 to i32, !dbg !79
              %12 = load i32, i32* %c, align 4, !dbg !80
              %13 = load i32, i32* %b, align 4, !dbg !81
              %cmp3 = icmp sqe i32 %12, %13, !dbg !82
              %conv4 = zext i1 %cmp3 to i32, !dbg !83
              %and = and i32 %conv, %conv4, !dbg !84
              \%tobool = icmp ne i32 \%and, 0, !dbg !79
              br i1 %tobool, label %if.then5, label %if.else6, !dbg !85, !prof !66
                                                  if.else6:
 if.then5:
                                                  %15 = load i32, i32* %x, align 4, !dbg !90
  %14 = load i32, i32* %x, align 4, !dbg !86
                                                  %add7 = add nsw i32 %15, 1, !dbg !92
  store i32 %14, i32* %y, align 4, !dbg !88
                                                  store i32 %add7, i32* %y, align 4, !dbg !93
  br label %if.end8, !dbg !89
                                                  br label %if.end8
           if.end8:
           %16 = load i32, i32* %a, align 4, !dbg !94
           %17 = load i32, i32* %d, align 4, !dbg !96
           %cmp9 = icmp slt i32 %16, %17, !dbg !97
           %conv10 = zext i1 %cmp9 to i32, !dbg !98
           %18 = load i32, i32* %c, align 4, !dbg !99
           %19 = load i32, i32* %b, align 4, !dbg !100
           %cmp11 = icmp sge i32 %18, %19, !dbg !101
           %conv12 = zext i1 %cmp11 to i32, !dbg !102
           %or = or i32 %conv10, %conv12, !dbg !103
           %tobool13 = icmp ne i32 %or, 0, !dbg !98
           br i1 %tobool13, label %if.then14, label %if.else15, !dbg !104, !prof !66
                            Т
                                                                  F
                                                  if.else15:
if.then14:
                                                  %21 = load i32, i32* %x, align 4, !dbg !109
%20 = load i32, i32* %x, align 4, !dbg !105
                                                  %add16 = add nsw i32 %21, 1, !dbg !111
store i32 %20, i32* %y, align 4, !dbg !107
                                                  store i32 %add16, i32* %y, align 4, !dbg !112
br label %if.end17, !dbg !108
                                                  br label %if.end17
         if.end17:
          %22 = load i32, i32* %y, align 4, !dbg !113
          %call = call i32 (i8*, ...) @printf(i8* noundef getelementptr inbounds ([3 x
         ... i8], [3 x i8]* @.str, i64 0, i64 0), i32 noundef %22), !dbg !114
```

ret i32 0, !dbg !115