```
entry:
%retval = alloca i32, align 4
 %A = alloca [10 \times i32], align 16
 %B = alloca [10 x i32], align 16
 %i = alloca i32, align 4
 %j = alloca i32, align 4
store i32 0, i32* %retval, align 4
 \%0 = \text{bitcast} [10 \times i32] * \% A \text{ to } i8 *
 call void @llvm.memcpy.p0i8.p0i8.i64(i8* align 16 %0, i8* align 16 bitcast
... ([10 x i32]* @ const.main.A to i8*), i64 40, i1 false)
 %1 = bitcast [10 x i32] * %B to i8*
call void @llvm.memset.p0i8.i64(i8* align 16 %1, i8 0, i64 40, i1 false)
store i32 0, i32* %j, align 4
store i32 0, i32* %i, align 4
 br label %for.cond
                       for.cond:
                        %2 = load i32, i32* %i, align 4
                        %cmp = icmp slt i32 %2, 10
                        br i1 %cmp, label %for.body, label %for.end, !prof!34
                                                                                                                   F
                                                      90.91%
                                                                                                                                                                                                                                                             9.09%
                                                                                      for.body:
                                                                                        %3 = load i32, i32* %j, align 4
                                                                                        %idxprom = sext i32 %3 to i64
                                                                                        %arrayidx = getelementptr inbounds [10 x i32], [10 x i32]* %A, i64 0, i64
                                                                                        ... %idxprom
                                                                                        %4 = load i32, i32* %arrayidx, align 4
                                                                                        %mul = mul nsw i32 %4, 11
                                                                                       %5 = load i32, i32* %i, align 4
                                                                                        %add = add nsw i32 %mul, %5
                                                                                                                                                                                                                                                                              for.end:
                                                                                       %6 = load i32, i32* %i, align 4
                                                                                                                                                                                                                                                                               ret i32 0
                                                                                        %idxprom1 = sext i32 \%6 to i64
                                                                                        % \operatorname{arrayidx2} = \operatorname{getelementptr} \operatorname{inbounds} [10 \times i32], [10 \times i32] * \%B, i64 0, i64
                                                                                       ... %idxprom1
                                                                                       store i32 %add, i32* %arrayidx2, align 4
                                                                                        %7 = load i32, i32* %i, align 4
                                                                                        %cmp3 = icmp slt i32 %7, 8
                                                                                        br i1 %cmp3, label %if.then, label %if.end, !prof!35
                                                                                                                                                                                                                       F
                                                                                                                                   80.00%
                                                                                                           if.then:
                                                                                                            \%8 = load i32, i32*\%i, align 4
                                                                                                                                                                                                                       20.00%
                                                                                                            store i32 %8, i32* %j, align 4
                                                                                                            br label %if.end
                                                                                      if.end:
                                                                                       %9 = load i32, i32* %i, align 4
                                                                                        %idxprom4 = sext i32 \%9 to i64
                                                                                        % = \frac{1}{2}  % % = 
                                                                                        ... %idxprom4
                                                                                       %10 = load i32, i32* %arrayidx5, align 4
                                                                                        %call = call i32 (i8*, ...) @printf(i8* noundef getelementptr inbounds ([4 x
                                                                                       ... i8], [4 x i8]* @.str, i64 0, i64 0), i32 noundef %10)
                                                                                        br label %for.inc
                                        for.inc:
                                         %11 = load i32, i32* %i, align 4
                                         %inc = add nsw i32 %11, 1
                                         store i32 %inc, i32* %i, align 4
```

br label %for.cond, !llvm.loop !36