```
%isNonNull = icmp ne %struct.DataNode* %0, null
                                                                    br i1 %isNonNull, label %conditional, label %24
                                                                                Τ
                              conditional:
                               %2 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 0
                              %3 = load %struct.DataNode*, %struct.DataNode** %2, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %3, i32 0,
                              ... i32 3, i32 1)
                               %4 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 1
                              %5 = load %struct.DataNode*, %struct.DataNode** %4, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %5, i32 0,
                              ... i32 3, i32 1)
                               %6 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 2
                               %7 = load %struct.DataNode*, %struct.DataNode** %6, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %7, i32 0,
                              ... i32 3, i32 1)
                               %8 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 3
                              %9 = load %struct.DataNode*, %struct.DataNode** %8, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %9, i32 0,
                              ... i32 3, i32 1)
                               %10 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 4
                              %11 = load %struct.DataNode*, %struct.DataNode** %10, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %11, i32 0,
                              ... i32 3, i32 1)
                               %12 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 5
                               %13 = load %struct.DataNode*, %struct.DataNode** %12, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %13, i32 0,
                              ... i32 3, i32 1)
                               %14 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 6
                               %15 = load %struct.DataNode*, %struct.DataNode** %14, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %15, i32 0,
                              ... i32 3, i32 1)
                              %16 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 7
                              %17 = load %struct.DataNode*, %struct.DataNode** %16, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %17, i32 0,
                              ... i32 3, i32 1)
                               %18 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 8
                              %19 = load %struct.DataNode*, %struct.DataNode** %18, align 8
                               call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %19, i32 0,
                              ... i32 3, i32 1)
                               %20 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 0, i32 9
                              %21 = load %struct.DataNode*, %struct.DataNode** %20, align 8
                               call void @llvm.prefetch.p0s_struct.DataNodes(%struct.DataNode* %21, i32 0,
                              ... i32 3, i32 1)
                               %22 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                              ... i32 1
                               %23 = load %struct.Data*, %struct.Data** %22, align 8
                              call void @llvm.prefetch.p0s struct.Datas(%struct.Data* %23, i32 0, i32 3,
                              br label %24
                                                             %24:
                                                             24:
                                                             %25 = alloca %struct.DataNode*, align 8
                                                             %26 = alloca i32*, align 8
                                                             %27 = alloca i64, align 8
                                                             store %struct.DataNode* %0, %struct.DataNode** %25, align 8
                                                             store i32* %1, i32** %26, align 8
                                                             %28 = load %struct.DataNode*, %struct.DataNode** %25, align 8
                                                             %29 = icmp ne %struct.DataNode* %28, null
                                                             br i1 %29, label %31, label %30
                                                                                                              F
                             %31:
                             31:
                              call void @srand(i32 noundef 100) #5
                              %32 = load %struct.DataNode*, %struct.DataNode** %25, align 8
                              %33 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %32, i32 0,
                             ... i32 1
                             %34 = load %struct.Data*, %struct.Data** %33, align 8
                              %35 = getelementptr inbounds %struct.Data, %struct.Data* %34, i32 0, i32 2
                             \%36 = \text{load i}32, \text{i}32* \%35, \text{align 4}

\%37 = \text{call i}32 \text{ (i}8*, ...) @printf(i}8* \text{noundef getelementptr inbounds ([3 x ]
                             ... i8], [3 x i8]* @.str, i64 0, i64 0), i32 noundef %36)
                              store i64 0, i64* %27, align 8
                              br label %38
                          %38:
                          38:
                          %39 = load i64, i64* %27, align 8
                          %40 = load %struct.DataNode*, %struct.DataNode** %25, align 8
                          %41 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %40, i32 0,
                                                                                                                  %30:
                          ... i32 3
                                                                                                                  30:
                          %42 = load i32, i32* %41, align 4
                                                                                                                  br label %79
                           %43 = \text{zext i} 32 \% 42 \text{ to i} 64
                          %44 = icmp ult i64 \%39, \%43
                           br i1 %44, label %45, label %79
                                                                                        F
           %45:
           %46 = load i32*, i32** %26, align 8
           %47 = load %struct.DataNode*, %struct.DataNode** %25, align 8
           %48 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %47, i32 0,
           ... i32 0
           %49 = load i64, i64* %27, align 8
           %50 = getelementptr inbounds [10 x %struct.DataNode*], [10 x
           ... %struct.DataNode*]* %48, i64 0, i64 %49
                                                                                                              %79:
           %51 = load %struct.DataNode*, %struct.DataNode** %50, align 8
                                                                                                              79:
           %52 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %51, i32 0,
                                                                                                               ret void
           ... i32 2
           %53 = load i32, i32* %52, align 8
           %54 = \text{zext i} 32 \% 53 \text{ to i} 64
           %55 = getelementptr inbounds i32, i32* %46, i64 %54
           %56 = Ioad i32, i32* %55, align 4
           %57 = icmp \text{ ne } i32 \%56, 0
           br i1 %57, label %75, label %58
                                %58:
                                58:
                                %59 = load i32*, i32** %26, align 8
                                %60 = load %struct.DataNode*, %struct.DataNode** %25, align 8
                                %61 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %60, i32 0,
                                ... i32 0
                                %62 = load i64, i64* %27, align 8
                                %63 = getelementptr inbounds [10 x %struct.DataNode*], [10 x
                                ... %struct.DataNode*]* %61, i64 0, i64 %62
                                %64 = load %struct.DataNode*, %struct.DataNode** %63, align 8
                                %65 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %64, i32 0,
                                ... i32 2
                                %66 = load i32, i32* %65, align 8
                                \%67 = \text{zext i} 32 \%66 \text{ to i} 64
                                %68 = getelementptr inbounds i32, i32* %59, i64 %67
                                store i32 1, i32* %68, align 4
                                %69 = load %struct.DataNode*, %struct.DataNode** %25, align 8
                                %70 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %69, i32 0,
                                ... i32 0
                                %71 = load i64, i64* %27, align 8
                                %72 = getelementptr inbounds [10 x %struct.DataNode*], [10 x
                                ... %struct.DataNode*]* %70, i64 0, i64 %71
                                %73 = load %struct.DataNode*, %struct.DataNode** %72, align 8
                                %74 = load i32*, i32** %26, align 8
                                call void @traverseDataLayout(%struct.DataNode* noundef %73, i32* noundef
                                ... %74)
                                br label %75
                    %75:
                     br label %76
%77 = load i64, i64* %27, align 8
\%78 = add i64 \%77, 1
```

check-arg:

%76: 76:

store i64 %78, i64* %27, align 8

br label %38, !llvm.loop !6