```
%2:
                                                             %3 = alloca %struct.DataNode*, align 8
                                                             %4 = alloca i32*, align 8
                                                             %5 = alloca i64, align 8
                                                             store %struct.DataNode* %0, %struct.DataNode** %3, align 8
                                                             store i32* %1, i32** %4, align 8
                                                             %6 = load %struct.DataNode*, %struct.DataNode** %3, align 8
                                                             %7 = icmp ne %struct.DataNode* %6, null
                                                             br i1 %7, label %9, label %8
                                                                           Τ
                                                                                                           F
                            %9:
                            9:
                             call void @srand(i32 noundef 100) #5
                             %10 = load %struct.DataNode*, %struct.DataNode** %3, align 8
                             %11 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %10, i32 0,
                             ... i32 1
                             %12 = load %struct.Data*, %struct.Data** %11, align 8
                             %13 = getelementptr inbounds %struct.Data, %struct.Data* %12, i32 0, i32 2
                             %14 = load i32, i32* %13, align 4
                             %15 = call i32 (i8*, ...) @printf(i8* noundef getelementptr inbounds ([3 x
                             ... i8], [3 x i8]* @.str, i64 0, i64 0), i32 noundef %14)
                             store i64 0, i64* %5, align 8
                             br label %16
                         %16:
                         16:
                          %17 = load i64, i64* %5, align 8
                          %18 = load %struct.DataNode*, %struct.DataNode** %3, align 8
                          %19 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %18, i32 0,
                                                                                                                %8:
                          ... i32 3
                          %20 = load i32, i32* %19, align 4
                                                                                                                br label %79
                          %21 = \text{zext i} 32 \% 20 \text{ to i} 64
                          %22 = icmp ult i64 \%17, \%21
                          br i1 %22, label %23, label %79
                                                                                       F
          %23:
          23:
           %24 = load i32*, i32** %4, align 8
           %25 = load %struct.DataNode*, %struct.DataNode** %3, align 8
           %26 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %25, i32 0,
           .. i32 0
           %27 = load i64, i64* %5, align 8
           %28 = getelementptr inbounds [10 x %struct.DataNode*], [10 x
           .. %struct.DataNode*]* %26, i64 0, i64 %27
                                                                                                            %79:
           %29 = load %struct.DataNode*, %struct.DataNode** %28, align 8
                                                                                                            79:
           %30 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %29, i32 0,
                                                                                                             ret void
           .. i32 2
           %31 = load i32, i32* %30, align 8
           %32 = \text{zext i} 32 \% 31 \text{ to i} 64
           %33 = getelementptr inbounds i32, i32* %24, i64 %32
           %34 = load i32, i32* %33, align 4
           %35 = icmp \text{ ne } i32 \%34, 0
           br i1 %35, label %75, label %36
                                                                        F
                               %36:
                                %37 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                               ... i32 0, i32 0
                                %38 = load %struct.DataNode*, %struct.DataNode** %37, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %38, i32 0,
                                ... i32 3, i32 1)
                                %39 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                               ... i32 0, i32 1
                                %40 = load %struct.DataNode*, %struct.DataNode** %39, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %40, i32 0,
                                ... i32 3, i32 1)
                                %41 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                ... i32 0, i32 2
                                %42 = load %struct.DataNode*, %struct.DataNode** %41, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %42, i32 0,
                                ... i32 3, i32 1)
                                %43 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                ... i32 0, i32 3
                                %44 = load %struct.DataNode*, %struct.DataNode** %43, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %44, i32 0,
                                ... i32 3, i32 1)
                                %45 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                %46 = load %struct.DataNode*, %struct.DataNode** %45, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %46, i32 0,
                                ... i32 3, i32 1)
                                %47 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                ... i32 0, i32 5
                                %48 = load %struct.DataNode*, %struct.DataNode** %47, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %48, i32 0,
                                ... i32 3, i32 1)
                                %49 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                ... i32 0, i32 6
                                %50 = load %struct.DataNode*, %struct.DataNode** %49, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %50, i32 0,
                                ... i32 3, i32 1)
                                %51 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                ... i32 0, i32 7
                                %52 = load %struct.DataNode*, %struct.DataNode** %51, align 8
                                call void @llvm.prefetch.p0s struct.DataNodes(%struct.DataNode* %52, i32 0,
                                ... i32 3, i32 1)
                                %53 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                ... i32 0, i32 8
                                %54 = load %struct.DataNode*, %struct.DataNode** %53, align 8
                                call void @llvm.prefetch.p0s_struct.DataNodes(%struct.DataNode* %54, i32 0,
                                ... i32 3, i32 1)
                                %55 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                ... i32 0, i32 9
                                %56 = load %struct.DataNode*, %struct.DataNode** %55, align 8
                                call void @llvm.prefetch.p0s_struct.DataNodes(%struct.DataNode* %56, i32 0,
                                ... i32 3, i32 1)
                                %57 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %0, i32 0,
                                %58 = load %struct.Data*, %struct.Data** %57, align 8
                                call void @llvm.prefetch.p0s struct.Datas(%struct.Data* %58, i32 0, i32 3,
                                %59 = load i32*, i32** %4, align 8
                                %60 = load %struct.DataNode*, %struct.DataNode** %3, align 8
                                %61 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %60, i32 0,
                                ... i32 0
                                \%62 = load i64, i64* \%5, 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** %3, align 8
                                %70 = getelementptr inbounds %struct.DataNode, %struct.DataNode* %69, i32 0,
                               ... i32 0
                                %71 = load i64, i64* %5, 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** %4, align 8
                                call void @traverseDataLayout(%struct.DataNode* noundef %73, i32* noundef
                                ... %74)
                                br label %75
                    %75:
                    75:
                    br label %76
%76:
76:
```

%77 = load i64, i64\* %5, align 8

store i64 %78, i64\* %5, align 8

br label %16, !llvm.loop !6

%78 = add i64 %77, 1