```
entry:
                                                                                 %K.addr = alloca i32, align 4
                                                                                 %indices.addr = alloca i32*, align 8
                                                                                 %i = alloca i32, align 4
                                                                                 \%j = alloca i32, align 4
                                                                                 %N = alloca i32, align 4
                                                                                 store i32 %K, i32* %K.addr, align 4
                                                                                 store i32* %indices, i32** %indices.addr, align 8
                                                                                 \%0 = \text{load i}32* \%\text{K.addr, align 4}
                                                                                 %conv = sitofp i32 %0 to float
                                                                                 %call = call float @log2f(float %conv) #3
                                                                                 %conv1 = fptosi float %call to i32
                                                                                 store i32 %conv1, i32* %N, align 4
                                                                                 %1 = load i32** %indices.addr, align 8
                                                                                 %arrayidx = getelementptr inbounds i32* %1, i64 0
                                                                                 store i32 0, i32* %arrayidx, align 4
                                                                                 %2 = load i32* %N, align 4
                                                                                 % sub = sub nsw i32 %2, 1
                                                                                 %shl = shl i32 1, %sub
                                                                                 %3 = load i32** %indices.addr, align 8
                                                                                 %arrayidx2 = getelementptr inbounds i32* %3, i64 1
                                                                                 store i32 %shl, i32* %arrayidx2, align 4
                                                                                 store i32 1, i32* %i, align 4
                                                                                 br label %for.cond
                                                                                    for.cond:
                                                                                    %4 = load i32* \%i, align 4
                                                                                    %5 = load i32* %N, align 4
                                                                                    %cmp = icmp slt i32 %4, %5
                                                                                    br i1 %cmp, label %for.body, label %for.end19
                                                                                                                        F
                                                               for.body:
                                                               \%6 = \text{load i}32*\%i, align 4
                                                                                                                   for.end19:
                                                               % sh13 = sh1 i32 1, %6
                                                                                                                    ret void
                                                               store i32 %shl3, i32* %j, align 4
                                                               br label %for.cond4
                                                    for.cond4:
                                                    \%7 = \text{load i} 32*\% j, align 4
                                                    \%8 = \text{load i} 32* \%i, align 4
                                                    %add = add nsw i32 %8, 1
                                                    % sh15 = sh1 i32 1, % add
                                                    %cmp6 = icmp slt i32 %7, %shl5
                                                    br i1 %cmp6, label %for.body7, label %for.end
for.body7:
\%9 = \text{load i} 32* \% \text{j, align 4}
\%10 = \text{load i}32*\%i, align 4
% sh18 = sh1 i32 1, %10
%sub9 = sub nsw i32 %9, %shl8
%idxprom = sext i32 %sub9 to i64
%11 = load i32** %indices.addr, align 8
%arrayidx10 = getelementptr inbounds i32* %11, i64 %idxprom
%12 = load i32* %arrayidx10, align 4
%13 = load i32* %N, align 4
                                                                                 for.end:
\% 14 = \text{load } i32*\% i, align 4
                                                                                  br label %for.inc17
%add11 = add nsw i32 %14, 1
%sub12 = sub nsw i32 %13, %add11
% shl13 = shl i32 1, % sub12
%add14 = add nsw i32 %12, %shl13
\%15 = \text{load i}32*\%j, align 4
%idxprom 15 = sext i 32 \% 15 to i 64
%16 = load i32** %indices.addr, align 8
%arrayidx16 = getelementptr inbounds i32* %16, i64 %idxprom15
store i32 %add14, i32* %arrayidx16, align 4
br label %for.inc
                                                                                  for.inc17:
                                   for.inc:
                                   \%17 = \text{load i}32*\%j, align 4
                                                                                   %18 = load i32* \%i, align 4
                                   %inc = add nsw i32 %17, 1
                                                                                   %inc18 = add nsw i32 %18, 1
                                   store i32 %inc, i32* %j, align 4
                                                                                   store i32 %inc18, i32* %i, align 4
                                   br label %for.cond4
                                                                                   br label %for.cond
```

CFG for '_Z14calcFftIndicesiPi' function