```
entry:
                            %retval = alloca i32, align 4
                            %argc.addr = alloca i32, align 4
                            %argv.addr = alloca i8**, align 8
                            %a = alloca i32, align 4
                            %sum = alloca i32, align 4
                            \%i = alloca i32, align 4
                            %c = alloca i32, align 4
                            store i32 0, i32* %retval, align 4
                            store i32 %argc, i32* %argc.addr, align 4
                            store i8** %argv, i8*** %argv.addr, align 8
                            store i32 0, i32* %a, align 4
                            store i32 0, i32* %sum, align 4
                            store i32 0, i32* %i, align 4
                            br label %for.cond
                           for.cond:
                            \%0 = \text{load i} 32, i 32*\% i, align 4
                            %1 = load i32, i32* %argc.addr, align 4
                            %cmp = icmp slt i32 %0, %1
                            br il %cmp, label %for.body, label %for.end
                                             for.end:
                                              \%5 = \text{load i}32, i32* \%a, align 4
for.body:
                                              \%6 = \text{load i} 32, \text{i} 32* \% \text{sum, align } 4
%2 = load i32, i32* \%i, align 4
                                              %call = call i32 @foo(i32 %5, i32 %6)
%3 = load i32, i32* %sum, align 4
                                              store i32 %call, i32* %c, align 4
%add = add nsw i32 %3, %2
                                              \%7 = \text{load i} 32, \text{i} 32*\%\text{c, align } 4
store i32 %add, i32* %sum, align 4
                                              %call1 = call i32 (i8*, ...) @printf(i8* getelementptr inbounds ([5 x i8],
 br label %for.inc
                                             ... [5 \times i8]* @.str, i320, i320), i32\%7)
                                              ret i32 0
  for.inc:
  \%4 = \text{load i}32, i32*\%i, align 4
  %inc = add nsw i32 %4, 1
  store i32 %inc, i32* %i, align 4
   br label %for.cond
```

Dominator tree for 'main' function