```
entry:
                                                                                                   %retval = alloca i32, align 4
                                                                                                   %argc.addr = alloca i32, align 4
                                                                                                   %argv.addr = alloca i8**, align 4
                                                                                                   %cmd = alloca [80 x i8], align 1
                                                                                                   %user = alloca [16 \times i8], align 1
                                                                                                   %pass = alloca [16 x i8], align 1
                                                                                                   %rc = alloca i8*, align 4
                                                                                                   %temp = alloca i8*, align 4
                                                                                                   store i32 0, i32* %retval
                                                                                                   store i32 %argc, i32* %argc.addr, align 4
                                                                                                   store i8** %argv, i8*** %argv.addr, align 4
                                                                                                   store i8* null, i8** %rc, align 4
                                                                                                   call void bitcast (void (...)* @banner to void ()*)()
                                                                                                   %call = call i32 (i8*, ...)* @printf(i8* getelementptr inbounds ([17 x i8]*
                                                                                                   ... @.str2, i32 0, i32 0))
                                                                                                   %arraydecay = getelementptr inbounds [16 x i8]* %user, i32 0, i32 0
                                                                                                   %0 = load %struct._IO_FILE** @stdin, align 4
                                                                                                   %call1 = call i8* @fgets(i8* %arraydecay, i32 16, %struct._IO_FILE* %0)
                                                                                                   store i8* %call1, i8** %rc, align 4
                                                                                                   %1 = load i8** %rc, align 4
                                                                                                   %cmp = icmp ne i8* %1, null
                                                                                                   br i1 %cmp, label %if.then, label %if.else
                                                                                                                   T
                                                                                                                                                           F
                                                              if.then:
                                                              %arraydecay2 = getelementptr inbounds [16 x i8]* %user, i32 0, i32 0
                                                                                                                                          if.else:
                                                              %call3 = call i32 @strlen(i8* %arraydecay2) #4
                                                                                                                                           %call4 = call i32 (i8*, ...)* @printf(i8* getelementptr inbounds ([25 x i8]*
                                                              %sub = sub i32 %call3, 1
                                                                                                                                           ... @.str3, i32 0, i32 0))
                                                              %arrayidx = getelementptr inbounds [16 x i8]* %user, i32 0, i32 %sub
                                                                                                                                           call void @exit(i32 1) #5
                                                              store i8 0, i8* %arrayidx, align 1
                                                                                                                                           unreachable
                                                              br label %if.end
                                                            if.end:
                                                            %call5 = call i8* @getpass(i8* getelementptr inbounds ([10 x i8]* @.str4,
                                                            ... i32 0, i32 0))
                                                            store i8* %call5, i8** %temp, align 4
                                                            \%2 = \text{load i8** \%temp, align 4}
                                                            %cmp6 = icmp ne i8* %2, null
                                                            br i1 %cmp6, label %if.then7, label %if.else14
                                                                                                                   F
                   if.then7:
                    %arraydecay8 = getelementptr inbounds [16 x i8]* %pass, i32 0, i32 0
                    %call9 = call i32 @strlen(i8* %arraydecay8) #4
                                                                                                     if.else14:
                    %sub10 = sub i32 %call9, 1
                                                                                                      %call15 = call i32 (i8*, ...)* @printf(i8* getelementptr inbounds ([25 x
                    %arrayidx11 = getelementptr inbounds [16 x i8]* %pass, i32 0, i32 %sub10
                                                                                                      ... i8]* @.str3, i32 0, i32 0))
                    store i8 0, i8* %arrayidx11, align 1
                                                                                                      call void @exit(i32 1) #5
                    %arraydecay12 = getelementptr inbounds [16 x i8]* %pass, i32 0, i32 0
                                                                                                      unreachable
                    %3 = load i8** %temp, align 4
                    %call13 = call i8* @strncpy(i8* %arraydecay12, i8* %3, i32 16) #6
                    br label %if.end16
                   if.end16:
                    %arraydecay17 = getelementptr inbounds [16 x i8]* %user, i32 0, i32 0
                    %arraydecay18 = getelementptr inbounds [16 x i8]* %pass, i32 0, i32 0
                    %call19 = call signext i8 @isValid(i8* %arraydecay17, i8* %arraydecay18)
                    %tobool = icmp ne i8 %call19, 0
                    br i1 %tobool, label %if.end26, label %if.then20
                                                                            F
                                         if.then20:
                                         %4 = load %struct._IO_FILE** @stderr, align 4
                                         %call21 = call i32 (%struct._IO_FILE*, i8*, ...)* @fprintf(%struct._IO_FILE*
                                         ... %4, i8* getelementptr inbounds ([42 x i8]* @.str5, i32 0, i32 0))
                                         %arraydecay22 = getelementptr inbounds [16 x i8]* %user, i32 0, i32 0
                                         %5 = load i8** getelementptr inbounds (%struct.cred_t* @cred_default, i32 0,
                                         ... i32 0), align 4
                                         %call23 = call i8* @strncpy(i8* %arraydecay22, i8* %5, i32 16) #6
                                         %arraydecay24 = getelementptr inbounds [16 x i8]* %pass, i32 0, i32 0
                                         %6 = load i8** getelementptr inbounds (%struct.cred_t* @cred_default, i32 0,
                                         ... i32 1), align 4
                                         %call25 = call i8* @strncpy(i8* %arraydecay24, i8* %6, i32 16) #6
                                         br label %if.end26
                                              if.end26:
                                               br label %while.body
                      while.body:
                      %arraydecay27 = getelementptr inbounds [16 x i8]* %user, i32 0, i32 0
                      %arraydecay28 = getelementptr inbounds [16 x i8]* %pass, i32 0, i32 0
                      %call29 = call i8* @redactPass(i8* %arraydecay28)
                      %call30 = call i32 (i8*, ...)* @printf(i8* getelementptr inbounds ([50 x
                      ... i8]* @.str6, i32 0, i32 0), i8* %arraydecay27, i8* %call29)
                      %call31 = call signext i8 bitcast (i8 (...)* @askYesOrNo to i8 ()*)()
                      %tobool32 = icmp ne i8 %call31, 0
                      br i1 %tobool32, label %if.end35, label %if.then33
                                                                           F
                                      T
%arraydecay36 = getelementptr inbounds [80 x i8]* %cmd, i32 0, i32 0
%arraydecay37 = getelementptr inbounds [16 x i8]* %pass, i32 0, i32 0
%arraydecay38 = getelementptr inbounds [16 x i8]* %user, i32 0, i32 0
                                                                                    if.then33:
%call39 = call i32 (i8*, i32, i8*, ...)* @snprintf(i8* %arraydecay36, i32
                                                                                     %7 = load %struct._IO_FILE** @stderr, align 4
... 80, i8* getelementptr inbounds ([31 x i8]* @.str8, i32 0, i32 0), i8*
                                                                                     %call34 = call i32 (%struct. IO FILE*, i8*, ...)* @fprintf(%struct. IO FILE*
                                                                                    ... %7, i8* getelementptr inbounds ([13 x i8]* @.str7, i32 0, i32 0))
... %arraydecay37, i8* getelementptr inbounds ([14 x i8]* @.str9, i32 0, i32 0),
... i8* %arraydecay38) #6
                                                                                     br label %RET
%arraydecay40 = getelementptr inbounds [80 x i8]* %cmd, i32 0, i32 0
%call41 = call i32 @system(i8* %arraydecay40)
br label %while.body
                                                                                                                       RET:
                                                                                                                       ret i32 0
```

if.end35: