

```
; Attributes: bp-based frame

public analyze_input
analyze_input proc near

shift= dword ptr -10h
fd= dword ptr -0Ch
filename= dword ptr  8
counts= dword ptr  0Ch

push    ebp
mov     ebp, esp
sub    esp, 18h
sub    esp, 8
push    0
push    [ebp+filename]
call    _open
add    esp, 10h
mov     [ebp+fd], eax
sub    esp, 8
push    [ebp+counts]
push    [ebp+fd]
call    generate_counts
add    esp, 10h
sub    esp, 0Ch
push    [ebp+counts]
call    find_best_shift
add    esp, 10h
mov     [ebp+shift], eax
sub    esp, 8
push    [ebp+shift]
push    offset aMostLikelyCaes ; "Most likely caesar shift is by %d\n"
call    _printf
add    esp, 10h
sub    esp, 0Ch
push    offset aMostProbablePl ; "Most probable plaintext: "
call    _printf
add    esp, 10h
sub    esp, 8
push    [ebp+shift]
push    [ebp+fd]
call    print_shifted
add    esp, 10h
sub    esp, 0Ch
push    [ebp+fd]
call    _close
add    esp, 10h
leave
ret
analyze_input endp
```