

<pre> int group1 = 101; int group2 = 106;  void call_swap() {     swap(&amp;group1, &amp;group2); }  void swap(int *xp, int *yp) {     int t0 = *xp;     int t1 = *yp;     *xp = t1;     *yp = t0; } </pre>	<pre> call_swap:     • • •     sub esp, 8     mov dword [esp + 4], group2     mov dword [esp], group1     call swap     • • •  swap:     push ebp     mov ebp, esp     push ebx      mov edx, dword [ebp + 8]     mov ebx, dword [edx]     mov ecx, dword [ebp + 12]     mov eax, dword [ecx]     mov dword [edx], eax     mov dword [ecx], ebx      pop ebx     pop ebp     ret </pre>
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<pre> int pcount_r(unsigned x) {     if (x == 0)         return 0;     else return         (x &amp; 1) + pcount_r(x &gt;&gt; 1); } </pre>	<pre> pcount_r:     push    ebp     mov     ebp, esp     push    ebx     sub     esp, 4     mov     ebx, dword [ebp + 8]     mov     eax, 0     test    ebx, ebx     je      .L3     mov     eax, ebx     shr     eax, 1     mov     dword [esp], eax     call    pcount_r     mov     edx, ebx     and     edx, 1     lea     eax, [edx + eax] .L3:     add     esp, 4     pop     ebx     pop     ebp     ret </pre>
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