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pent_asm.s

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```

1  .sect .text; .sect .rom; .sect .data; .sect .bss
2  .extern _func1
3  .sect .text
4  _func1:
5  push ebp
6  mov ebp,esp
7  sub     esp,8
8  push esi
9  mov esi,8(ebp)
10 mov edx,(_a1+4)
11 sal edx,2
12 add edx,12(ebp)
13 mov -4(ebp),edx
14 movsx eax,10(ebp)
15 sal eax,1
16 add eax,3
17 mov -8(ebp),eax
18 add eax,-4(ebp)
19 add (_x),eax
20 movsxb eax,(esi)
21 dec eax
22 movb (esi),al
23 movsxb ebx,(_a1)
24 ! kill cc
25 test ebx,ebx
26 jle I1_1
27 mov edx,12(ebp)
28 mov ecx,edx
29 inc ecx
30 mov 12(ebp),ecx
31 push edx
32 push esi
33 call _func1
34 pop ecx
35 pop ecx
36 I1_1:
37 pop esi
38 leave
39 ret
40 .extern _main
41 _main:
42 push ebp
43 mov ebp,esp
44 push esi
45 mov esi,_a1
46 movb (_a1),1
47 movsxb eax,(esi)
48 add eax,2
49 mov (_a1+4),eax
50 add eax,3
51 movb (_a1+8),al
52 movsxb ebx,8(ebp)
53 add ebx,4
54 mov eax,ebx
55 movsx eax,eax
56 o16 mov 10(ebp),eax
57 movsx ebx,(_a1+10)
58 add ebx,5
59 mov eax,ebx
60 movsxb eax,eax
61 movb 12(ebp),al
62 movsxb ebx,(_a1+12)
63 push ebx
64 push esi
65 call _func1
66 pop ecx
67 pop ecx
68 movsxb eax,(_a1+12)
69 movsx ebx,(_a1+10)
70 movsxb ecx,(_a1+8)
71 movsxb edx,(_a1)
72 push eax
73 push ebx

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74 push ecx
75 push (_a1+4)
76 push edx
77 push I_1
78 call _printf
79 add esp,24
80 push (_x)
81 push I_2
82 call _printf
83 pop ecx
84 pop ecx
85 pop esi
86 leave
87 ret
88 .sect .rom
89 I_2:
90 .data4 540876920
91 .data4 680997
92 I_1:
93 .data4 1025519969
94 .data4 744760608
95 .data4 744760585
96 .data4 744760585
97 .data4 744760585
98 .data4 174335241
99 .extern _x
100 .data4 0
101 .sect .bss
102 .comm _x,4
103 .extern _a1
104 .comm _a1,16
105 .sect .text

```