

```
1      .file      "loop_invariant.c"
2      .def       __main;      .scl      2; .type      32; .endef
3      .text
4      .globl __main
5      .def       __main;      .scl      2; .type      32; .endef
6      __main:
7          pushl   %ebp
8          movl    %esp, %ebp
9          subl    $408, %esp
10         andl    $-16, %esp
11         movl    $16, %eax
12         call    __alloca
13         call    __main
14         movl    $0, %eax
15         movl    $1000, %edx
16 L4:
17         movl    %edx, -408(%ebp,%eax,4)
18         incl    %eax
19         cmpl    $99, %eax
20         jle     L4
21         leave
22         ret
23
```