

```
1 .text
2 .globl main
3
4
5 .globl zip1
6 .globl zip2
7 zip1: .long 3
8 zip2: .long 5
9
10 swap:
11     pushq    %rbp
12     movq     %rsp, %rbp
13     pushq    %rbx
14
15
16     movq     24(%rbp), %rcx
17     movq     16(%rbp), %rdx
18
19     movq     (%rcx), %rax
20     movq     (%rdx), %rbx
21     movq     %rax, (%rdx)
22     movq     %rbx, (%rcx)
23
24     movq     -8(%rbp), %rbx
25     movq     %rbp, %rsp
26     popq     %rbp
27     ret
28
29 main:
30     movq     %rsp, %rbp #for correct debugging
31     xorq     %rax, %rax
32     pushq    $zip1
33     pushq    $zip2
34     call     swap
35     movq     zip1, %rax
36     movq     zip2, %rbx
37     ret
38
```