testFlags.s

```
.section .rodata
a:
              .bvte 69
             .byte 50
b:
summand1: .byte 53
summand2: .byte -45
.section .text
.globl main
.type main, @function
main:
  pushq %rbp
  movq %rsp, %rbp
  movb $127, %sil  # sil = 01111111 = 127
incb %sil  # sil = 10000000_2
                           # = 128_{10} > signed byte MAX, OF = 1
  incb %sil
                           # sil = 100000001 2 = -127 10, OF = 0
  movb a, %dil  # dil = 01000101 = 69
shlb $2, %dil  # dil = 00010100 = 20
shrb $3, %dil  # dil = 000000010 = 2, last digit out = 1
shrb $1, %dil  # dil = 000000001 = 1, last digit out = 0
shrb $1, %dil  # dil = 000000000 = 0, last digit out = 1
  movb b, %dil # dil = 50 incb %dil # dil = 51 carry flag not changed
  movb summand1, %al
                              \# al = 53
  movb summand2, %dil # dil = -45
  addb %dil, %al \# al = 8, carry flag set
  incb %al
                               # al = 9, carry flag not changed
  # exit main
  xorq %rax, %rax \# CF = 0, OF = 0
  popq %rbp
  ret
```