About to call printf()

```
      0x40055f <main+8>
      lea
      rdi, [rip+0xd2]
      # 0x400638

      0x400566 <main+15>
      mov
      eax, 0x0

      0x40056b <main+20>
      call
      0x400450 <printf@plt>
```

In this case only 1 argument is supplied

About to call scanf()

```
0x400570 <main+25> lea rax, [rbp-0x1]
0x400574 <main+29> mov rsi, rax
0x400577 <main+32> lea rdi, [rip+0xe2] # 0x400660
0x40057e <main+39> mov eax, 0x0
0x400583 <main+44> call 0x400460 <__isoc99_scanf@plt>
```

Rdi holds the first argument -> format specifier

Rsi holds the second argument -> the buffer in the stack to store the said data

Here we see the 0x41 which translates to A right before rbp

```
gef> x/gx $rbp
0x7ffffffffe420: 0x000000000004005b0
gef>
```

```
      gef> x/4gx $rbp-16

      0x7fffffffe410: 0x00007fffffffe500
      0x41000000000000

      0x7fffffffe420: 0x00000000000005b0
      0x00007ffff7a05b97

      gef> |
```