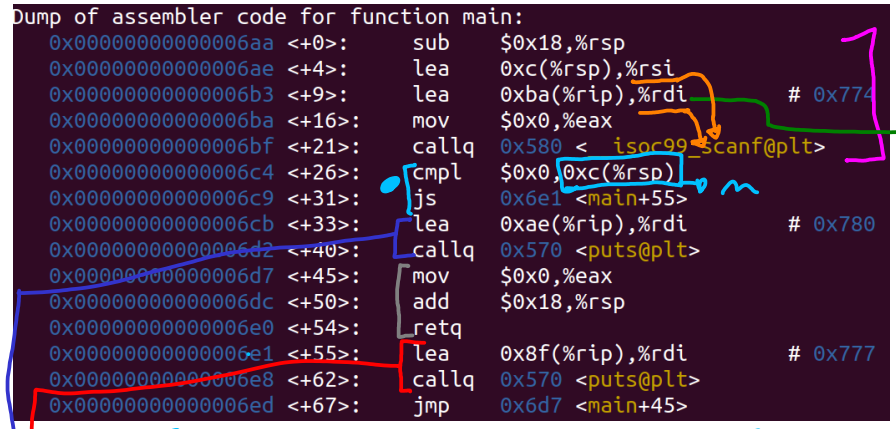


INT m;
SCANF("%d", &m);

CHAR FORMAT[3]="%d"

FORMAT[0]

CPU

RSI

0x10c

8 BYTES

RSP = 0x100 + 0xc = 0x10c

INT m;
SCANF("%d", &m);
• IF (m-0 < 0) {
GOTO NEG;
}
• PRINTF("POSITIVO");
FINAL:
RETURN 0;
• NEG:
PRINTF("NEGATIVO");
GOTO FINAL;

0x774

%	d	\0

```c
int main() {
  int n;
  scanf("%d", &n);
  if (n > 0) {
    printf("Positivo");
  } else {
    printf("Negativo");
  }
   return 0;
}
```

```
Dump of assembler code for function soma:
   0x0000000000000000 <+0>:     mov    $0x0,%edx
   0x0000000000000005 <+5>:     mov    $0x0,%eax
   0x000000000000000a <+10>:    jmp    0x15 <soma+21>
   0x000000000000000c <+12>:    movslq %edx,%rcx
   0x000000000000000f <+15>:    add    (%rdi,%rcx,4),%eax
   0x0000000000000012 <+18>:    add    $0x1,%edx
   0x0000000000000015 <+21>:    cmp    %esi,%edx
   0x0000000000000017 <+23>:    jl     0xc <soma+12>
   0x0000000000000019 <+25>:    repz retq
```

primeira posição do array

i-ésima

EDX → INT a; RCX

EAX → INT RES; } LOCAIS

ESI → INT b; (PARAM)

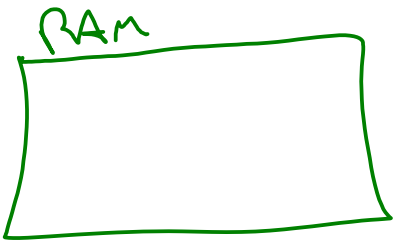
RDI → INT *VEC

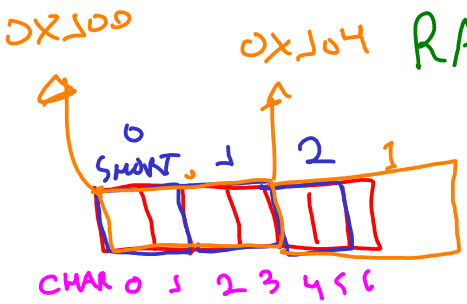
```
int soma(int *vec, int b) {
    int a = 0;
    int res = 0;

    goto verifica;

    faz_soma:
      res += vec[a];
      a ++;



    verifica:
        if (a < b) {
          goto faz_soma;
        }
        return res;
}
```

RDi = 0x100

RCX = 0x1

EAX += RDi[RCX]






```
int soma(int *vec, int n) {
    int sum = 0;
    for (int i = 0; i < n; i++) {
        sum += vec[i];
    }
     return sum;
}
```

```
int soma(int *vec, int n) {
    int sum = 0;
    int i = 0;
    while (i < n) {
        sum += vec[i];
        i++;
    }
     return sum;
}
```