3.70 | e1 + 16 bytes

e2 + 16 bytes

A) e1. p= 0, ex=5, e2. y=0, e2. nex+=8

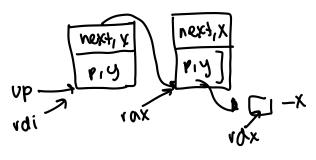
B) 16 bytes

c) void proc (union e1e +up) i

up + e2. x = * (up + e2. nex+ + e1.p) - up+e1.y

```
void proc (union ele *up)
   up in %rdi
1
   proc:
              8(%rdi), %rax
2
      movq
      movq (%rax), %rdx
           (%rdx), %rdx
4
      movq
              8(%rax), %rdx
5
      subq
           %rdx, (%rdi)
      movq
7
      ret
```

- 4 memory address in up stored in rdi
- 2) move up one memory address, 7 store next dereterence, store in rax I node in rax
- 3) deret rax, stove in rax 3 stove p in rax
- 4) deret rdx, store in rdx. 3 store 'val of p in rdx
- 5) subtract dencerence of ot rox in rdx
- 6) move rdx into memory address in rdi.



up = e1.p= e2.nex+ >

UNION ELE

- (389)
- A) True. Doubles can cast integers will loss of accuracy, so there is no difference between casting from int to double to float and from int directly to float.
- B) False. county example: $x = Tmin = -2^{31}$ y = -1 $x - y = Tmin - 1 = Tmax = 2^{31} - 1$ $dy - dy = -2^{31} - 1$
- c) true, because we can save any 53-bit integer without was of accuracy.
- d) False. If dx = dy but d=>7 dy,
 then we might lose precision
 doing (dy+d=) that we might
 not have had we done
 (dx+dy) pirst.
- E) False if X or = 13 0.