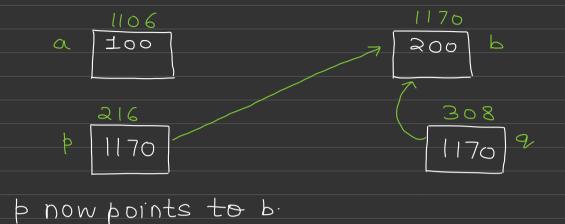
Quiz-6 Detailed Solutions

- 1. int a = 5; int * ptr = & a; pointer declaration & initialization
- 2. ampersand (&) operator is used to get the address of variable.
- int k = 10;
 int k = 26; 104 104
 - a address of b.
- 1. int a = 100, b = 200; int *p = &a, *q = &b; p = q;
 - p=q; 1106 a 100
 - 1106

308

After p = 9



P now points to be



* < = 7 will modify b to 7 from 17.

$$(*q) + + \Rightarrow 50 + 1 = 51$$
 104
 216
 104
 50
 104
 216
 104

$$\begin{array}{c|c}
\hline
50 & 51 & 104 \\
\hline
a & ptr \\
\hline
cout << (*ptr) + + << "" " > 50 \\
\hline
cout << a << endl $j \rightarrow 51$$$

int *ptr=0; X

8.

*
$$pty = pj$$

* $pty = pj$

 $(* \text{btr}) + + \Rightarrow f = 10.5 + 1 = 11.5$

10. Garbage Value $a \rightarrow 7$ * C - garbage value 11. 800 806 $C \to 800 + 2 \times 3 = 806$ 12. 54.22 <

 $C = 200 + (8 \times 3) = 200 + 24 = 224$

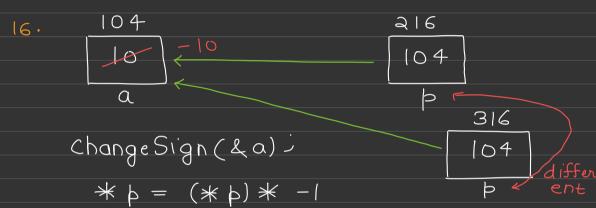
14. int a
$$\Box = \{1, 2, 3, 43\}$$

a $a + 3$

$$*a = 1$$

 $*(q+3) = 4$

15. Error as a is a constant pointer.



- 17. Same concept as that of above. Value is changed to II.
- 18. Time complexity = O(nloglogn) of Sieve of Exatostnenes.
- 19. We have to cross out multiples of the prime as they won't be prime
- 20. Size of away is n+1 i.e O(n) is the space complexity.