

Day - 66Double Pointer

⇒ Suppose if we want to ~~creat~~ store the address of a pointer —

```
int n = 10;
int *p = &n;
int **ptr = &p;
```

=> Ptr is a pointer that points to a pointer that points to a int value.

=> Also, we can create Triple Pointer —

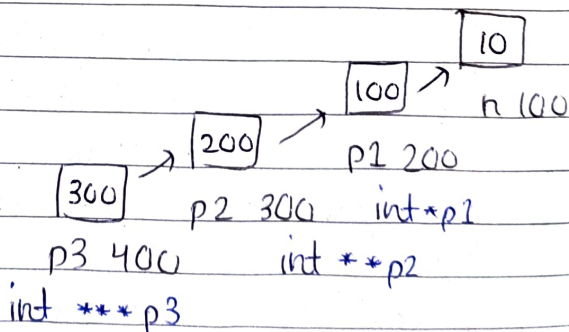
```
int ***p1 = &ptr;
```

⇒

```
*p = *p + 4;
*p = 10 + 4 = 14
```

↳ dereference operator

⇒ Triple Pointer:



* Questions1. `int main() {``char c[] = "GATE2024";``char *p = c;``cout << p + PC3] - PC1];``}` Add. + 'E' - 'A' (difference of \Rightarrow (suppose) $100 + 4 = 104$

ASCII values

So the o/p is —

2024

2. `void second (int *p1, int *p2)``{ p1 = p2; *p1 = 2; }``int main () {``int i = 0, j = 1; second (&i, &j);``cout << i << j;``}` \Rightarrow 0 23. `int *ptr; int x = 0;``ptr = &x; int y = *ptr;``*ptr = 1;``cout << x << y;` \Rightarrow 1 04. `int a = 5, b = 10; int &name = a; int *ptr = &a;``(*ptr)++; ptr = &b; *ptr = *ptr + 5;``name += 5; cout << a << b;` \Rightarrow 11 15

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5.

```
int four(int x, int *py, int **ppz){
    int y, z;
    **ppz += 1; z = **ppz;
    *py += 2; y = *py; x += 3;
    return x + y + z;
} int c, *b, **a
c = 4, b = &c, a = &b;
cout << four(c, b, a);
```

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6.

```
void five(char *str1, char *str2){
    while ((*str1 == *str2)){
        str1++, str2++;
    }
} int main(){
    char first[] = "Mahit";
    char second[] = "Rohan";
    five(first, second);
    cout << first;
}
```

⇒

Rohan