```
#include <iostream>
using namespace std;
int main()
{

/* double x, y;

cout << "Enter two floating-point values: ";

cin >> x; cin >> y;

cout << "The average of the two numbers is: " << (x + y)/2.0 << endl;

*/

int a[7]={4, 5, 6, 7, 8, 9, 10};

cout << a[3] <<<span="" class="mceltemHiddenSpellWord">endl;

cout << a[3] << endl;

cout << 3[a] << endl;

return 0;}
```

- (1) < Span = ""... > part should be removed, since it is extra statement added accidently during the copy paste operations.
- (2) Both $\alpha [3]$ and $3[\alpha]$ can access to the 4^{th} element of the array. $\alpha [3] = {}^*(\alpha + 3)$ \longrightarrow point to the same address $3[\alpha] = {}^*(3 + \alpha)$
- Q2. a) int *a[6]; This statement declares an array with 6 elements.

 each element is a int pointer.
 - b) int (*a)[6]; This statement declares a pointer that points to a 6-int array
 - c) int *(aib]); This statement declares an array with b elements each element is a int pointer.

Extra Credit. To approach this problem, my basic idea starts with the first line

```
and (last elem in lower line + last elem in upper line), compare them to 56:
if both of the two sums smaller than 56, lower row changes to its next row;
if both of the two sums greater than 56, upper row changes to its previous row;
if 56 is between the two sums, for every element in one row, run binary search for
that element in another tow.
Here is my psendo code:
int rowi = 0, rowj = arr.length -1;
While (both four pointers in valid scope)
    if (arr[row i][first] + arr[rowj][first] <= 56 && arr[rowi][last] + arr[rowj][last]>= 56)
          for (every num in Row i) {
            return binary Search (Rowj, 56-num);
    while (both four pointers in valid scope && arr[rowi][first] + arr[rowj][first] < 56
                                      && arr[rowi][[ast] + arr[rowj][[ast] < 56)
   while (both four pointers in valid scope && arr[rowi][first] + arr[rowj][first] > 56
                                     88 arr[row i][last] + arr[rowj][last] > 56)
```

and the last line, check (first element in lower row + first element in the upper line)