

*Change the elements of the SWITCH array:  
divisible by 4 divided by 2,  
divisible by 4 with a remainder of 1 → zero,  
divisible by 4 with a remainder of 2 change sign,  
divisible by 4 with a remainder of 3, increase by 7.*



homework

2 ways  
1)if - else if  
2)continue

```
void sumArray(int arr[], int length)
{
    for (int i = 0; i < length; i++) {
        if (arr[i] % 4 == 0) {
            arr[i] = arr[i] / 2;
        }
        else if (arr[i] % 4 == 1) {
            arr[i] = 0;
        }
        else if (arr[i] % 4 == 2) {
            arr[i] = arr[i] * (-1);
        }
        else if (arr[i] % 4 == 3) {
            arr[i] = arr[i] + 7;
        }
    }
}
```

```
void sumArray(int arr[], int length) {
    for (int i = 0; i < length; i++) {
        if (arr[i] % 4 == 0) {
            arr[i] = arr[i] / 2;
            continue;
        }
        if (arr[i] % 4 == 1) {
            arr[i] = 0;
            continue;
        }
        if (arr[i] % 4 == 2) {
            arr[i] = arr[i] * (-1);
            continue;
        }
        if (arr[i] % 4 == 3) {
            arr[i] = arr[i] + 7;
            continue;
        }
    }
}
```

```
void sumArray(int arr[], int length) {
    int stopFlag;
    for (int i = 0; i < length; i++) {
        stopFlag = 0;
        if (stopFlag == 0 && arr[i] % 4 == 0) {
            arr[i] = arr[i] / 2;
            stopFlag = 1;
        }
        if (stopFlag == 0 && arr[i] % 4 == 1) {
            arr[i] = 0;
            stopFlag = 1;
        }
        if (stopFlag == 0 && arr[i] % 4 == 2) {
            arr[i] = arr[i] * (-1);
            stopFlag = 1;
        }
        if (stopFlag == 0 && arr[i] % 4 == 3) {
            arr[i] = arr[i] + 7;
            stopFlag = 1;
        }
    }
}

void sumArray(int arr[], int length) {
    int stopFlag;
    for (int i = 0; i < length; i++) {
        switch(arr[i] % 4)
        {
            case 0:
                arr[i] = arr[i] / 2;
                break;
            case 1:
                arr[i] = 0;
                break;
            case 2:
                arr[i] = arr[i] * (-1);
                break;
            case 3:
                arr[i] = arr[i] + 7;
                break;
            default:
                arr[i] = arr[i] * arr[i];
                break;
        }
    }
}
```

good

```
if(stopFlag == 0 && count_1001_digit_of_number_e())
{
}
```

bad

```
if(count_1001_digit_of_number_e() && stopFlag == 0)
{
}
```