1) change the elements of array using SWITCH:

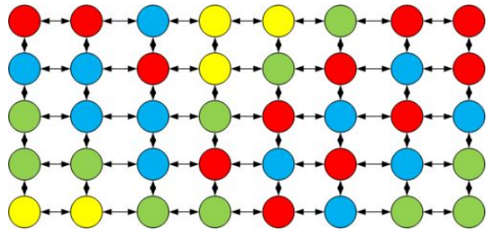
divisible by 7 → double by 2,
divisible by 7 with a remainder of 1 → change sign,
divisible by 7 with a remainder of 2 → replace with a modulus,
divisible by 7 with a remainder of 3 --> zero

2) change the elements of the array in 3 ways (else if; continue; flag):
divisible by 7 positive → double,
divisible by 7 with a remainder of 1 → change sign,
divisible by 7 with a remainder of -2, → replace with zero
the rest -> +2

// cannot be done with a switch statement because it has more than 1 condition
“divisible by 7” && “positive”

```
void sumArray(int arr[], int length) {
 for (int i = 0; i < length; i++) {
    switch(arr[i] % 7) {
       case 0:
          arr[i] = arr[i] * 2;
          break;
       case 1:
          arr[i] = arr[i] * (-1);
          break;
       case -2:
          arr[i] = myAbs(arr[i]);
// calls myAbs functiona s long as it is above, not
below
          break;
       case 3:
          arr[i] = 0;
          break;
       default:
          arr[i] = arr[i];
          break;
    }
 }
}
```

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



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

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