Count the number of distinct modulo 5 among the elements of an array

Example:

array	*90*	*73*	*11*	*-4*	*7*	*1*	*0*	*2*
remainders from division by 5	*0*	*3*	*1*	*-4*	*2*	*1*	*0*	*2*

various remainders 0;3;1;-4;2

answer 5

```
void checkArray(int arr[], int length) {
  int addArray[length];
  int flag;
  int var = 0;
  for (int i = 0; i < length; i++) {
     flag = 0;
     for (int j = 0; j < var; j++) {
        if (addArray[j] == arr[i] % 5) {  // encountered a repeated number
           flag = 1;
           break;
        }
     }
     if (flag == 0) {                  // checking if encountered a new number, flag = 0 means yes
        addArray[var] = arr[i] % 5;     // adding new number to array (the remainder of arr[i])
        var++;                          // acts as a counter and index of new array #
     }
  }
  std::cout << " number of remainders: "   << var << std::endl;
}
```