class MaximumSum

{

    int FindMaxSum(int arr[], int n)

    {

        int incl = arr[0];

        int excl = 0;

        int excl\_new;

        int i;

        for (i = 1; i < n; i++)

        {

                        excl\_new = (incl > excl) ? incl : excl;

            incl = excl + arr[i];

            excl = excl\_new;

        }

                return ((incl > excl) ? incl : excl);

    }

    public static void main(String[] args)

    {

        MaximumSum sum = new MaximumSum();

        int arr[] = new int[]{5, 5, 10, 100, 10, 5};

        System.out.println(sum.FindMaxSum(arr, arr.length));

    }

}