import java.util.\*;

public class Weight

{

public static void main(String args[])

{

Scanner sc = new Scanner(System.in);

int n = sc.nextInt();

int k = sc.nextInt();

int arr[] = new int[n];

int sp[] = new int[n];

//int res[] = new int[n];

for(int i=0;i<n;i++)

{

arr[i] = sc.nextInt();

}

for(int j=0;j<n;j++)

{

sp[j] = arr[j]%k;

}

for(int i=0;i<n;i++)

{

for(int j=i;j<n;j++)

{

if(sp[i]<sp[j])

{

int temp1 = sp[j];

    sp[j] = sp[i];

    sp[i] = temp1;

int temp  = arr[j];

    arr[j] = arr[i];

    arr[i] = temp;

}

}

}

for(int i=0;i<n;i++)

{

for(int j=i;j<n;j++)

{

if(sp[i]==0 && sp[j]==0)

{

int temp11 = sp[j];

    sp[j] = sp[i];

    sp[i] = temp11;

int temp12  = arr[j];

    arr[j] = arr[i];

    arr[i] = temp12;

}

}

}

for(int j=0;j<n;j++)

{

System.out.print(arr[j] +" ");

}

}

}