map
MapGeneric:

Member Variable:

vector < int > @ Map (std:: vector < int >

is the vector for map input

vector <int> map 1

is the vector boriable for store the output after marry

Methoa:

virtual flint) = 0 is Pure Virtual function 1 for children class

recusiummap (vector sint 7, int 9 is for reassion map,

Map Square:

Memember Variable:

int i is integer variable into our input vector

Method:

Map Square: flint i) is function for 1 = 12.

MapTripe:

Mehrember variabe:

inti is integer certable from input becom-

Method:

Map Triple if (int i) is function for i -3xi

```
me 1- 100011
     Mapabsoludale:
#
        Memember larichle:
£
               int i is integer variable for input vector
1/
       Method:
£
      Map Ahrunte: flinti) is a furth for input > linput
8
      filter
   Filter Genaic:
     Memember variable:
           UPCTUR < int > ( filter ( Vector < int > )
           is the vector for filter input
       Vector <int > filter u
         is the vector for street the watput offer fitting
      Method
        Utroud glint) =0 is a pure virtual function for chieden cos
       Yourinfilter (vegucin, int, is for recusin filter
      FitterOdd:
        Memerika Variable
           int i's intoger variable tom input vector
      Method:
       Fifter Squer : Mint i) is a future for return i. > 14.2!=0
```

Filter Non Positive: Memember Vanable. int i is integer canable for input actor. Method: Filter Appoistive: G(int:) is return the integer >0. FilterForTw Digitpoist Mehanber; int i is a intgo, variable for import vector. Method: Filterford Digne parson, 9 bis is return the integer >10 & >0. Reduce ReduceGenera Memember Varioble: int robbee (Vector<int>) is the ingger for inpureour. int reduces of for stre Headput Method: recusiurreduce () for recusiun Reduce umunt, binar Operatur (int, int) >0 for Children class

ReduceGO

Memor ber variable

iej due intager variable for a number seek GCD.
Method

Reduce GCD21 binary Operator for Output return GCD

ReducMininum

Memember Carlobe

in Right are integer variouse for 2 number seel mini one

Method:

Reduce GOD: binary Operator for output return mini One.

Testing:

input:

-5,-24.-123,-81, 200, 157, 84, 67,-83, -60,

-72, 192, -25, -70, -50, -181, -70, -15, -108, 425

obtput:

21 2

input: 0, 0, 0, 0

cutput:

MAL

output: MIL

input: 600 456 789 (0 11 12 13 14 15 /6 17 18.

Output: MUL

Output: MUL 16

input:

9, 4,53, 46, 73,128, 105, 104, -71, 479, 102,

12,21, -15, -9, 109, -156, -186, 43, -189

diffur ?

27.9