#include<stdio.h>

#include<conio.h>

void main()

{

int a[30],b[30],n,m,p,q,rel;

clrscr();

printf("enter the number of elements of domain not more than 30\n");

scanf("%d",&n);

printf("enter the elements of domain\n");

for(p=0;p<n;p++)

{

scanf("%d",&a[p]);

}

printf("enter the number of elements of codomain but not more than 30\n");

scanf("%d",&m);

printf("enter the elements of codomain now\n");

for(q=0;q<m;q++)

{

scanf("%d",&b[q]);

}

printf("enter 1 for relation a[i] divides b[j]\n enter 2 for relation a[i]<b[j]\n enter 3 for relation a[i]\*a[i]=b[j]\n");

scanf("%d",&rel);

switch(rel)

{

case 1:

for(p=0;p<n;p++)

{

for(q=0;q<m;q++)

{

if(b[q]%a[p]==0)

printf("(%d,%d)",a[p],b[q]);

}

}

break;

case 2:

for(p=0;p<n;p++)

{

for(q=0;q<m;q++)

{

if(a[p]<b[q])

printf("(%d,%d)",a[p],b[q]);

}

}

break;

case 3:

for(p=0;p<n;p++)

{

for(q=0;q<m;q++)

{

if(a[p]\*a[p]==b[q])

printf("(%d,%d)",a[p],b[q]);

}

}

break;

}

getch();

}