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//Junior 5
//Enloe HS
//Contest #4
import java.util.Scanner;
import java.io.File;
import java.io.FileNotFoundException;
class Main {

    public static void main(String[] args) throws FileNotFoundException {
        System.out.println("read from file");
        File file = new File("junior.txt");
        Scanner kb = new Scanner(file);
        for(int a = 0; a<5; a++) {
            int opp1 = kb.nextInt(); int opp2 = kb.nextInt(); int opp3 = kb.nextInt();
            int location = kb.nextInt();
            int[]arr1= new int [kb.nextInt()];
            int pH=0; //placeholder
            if (opp2<opp1) {
                pH=opp1; opp1=opp2; opp2=pH;
            }
            if (opp3<opp2) {
                pH=opp2; opp2=opp3; opp3=pH;
            }
            for (int i = 0; i < arr1.length; i++)
                arr1[i]=kb.nextInt();
            int out = 0;
            for (int i = 0; i < arr1.length; i++) {
                if(location+arr1[i]==opp1||location+arr1[i]==opp2||location+arr1[i]==opp3);
                //case of marker landing on another marker's space
            else {
                location = location+arr1[i];
                if(location==52)
                    out=52;
                if(location>52)
                    location=location-arr1[i];
                else {
                    boolean prime = true;
                    for(int j = 2; j < location; j++) {
                        if(location%j==0)
                            prime = false;
                    }
                }
                if(prime) {
                    if(location<opp1&&location+6>=opp1)

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        location = opp1-1;
    else if(location<opp2&&location+6>=opp2)
        location = opp2-1;
    else if(location<opp3&&location+6>=opp3)
        location = opp3-1;
    else location = location+6;
    if(location==52)
        out=52;
    if(location>52)
        location=location-6;
}
else if(Math.sqrt(location)==(int)Math.sqrt(location)) {
    if(location==4);
    else if(location-6<=opp1&&location>opp1)
        location = opp1+1;
    else if(location-6<=opp2&&location>opp2)
        location = opp2+1;
    else if(location-6<=opp3&&location>opp3)
        location = opp3+1;
    else location = location-6;
}
else {
    if ((location-arr1[i]<7&&location>7)||((location-
arr1[i]<12&&location>12)||((location-arr1[i]<17&&location>17)||((location-
arr1[i]<22&&location>22)||((location-arr1[i]<27&&location>27)
||((location-arr1[i]<35&&location>35)||((location-
arr1[i]<40&&location>40)
||((location-arr1[i]<45&&location>45)||((location-
arr1[i]<50&&location>50)) {
        if(opp1==location-location%arr1[i])
            location = location-arr1[i];
        else if(opp2==location-location%arr1[i])
            location = location-arr1[i];
        else if(opp3==location-location%arr1[i])
            location = location-arr1[i];
        else location = location-location%arr1[i];
    }
    if(location==52)
        out=52;
    if(location>52)
        location=location-location%arr1[i];
}
}
}
}

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}  
if(out==52)  
    System.out.println("GAME OVER");  
else  
    System.out.println(location);  
  
}  
}  
  
}
```