

18-03-04-C

```
static int[] rimuovi(int[] v1, int[] v2){
    int[] temp=new int[v2.length];
    int cont=0;
    for (int i=0;i<v2.length;i++){
        if (eMultiplo(v2[i],v1)) {
            temp[cont]=v2[i];
            cont++;
        }
    }
    int[] v3=new int[cont];
    for (int i=0;i<cont;i++){
        v3[i]=temp[i];
    }
    return v3;
}
```

```
static boolean eMultiplo(int x, int[] v){
    boolean ok=false;
    int cont=0;
    while (!ok && cont<v.length){
        if (x%v[cont]!=0) ok=true;
        cont++;
    }
    return ok;
}
```

```
public class Esc3_2004_03_18{
```

```
public static void main(String[] args){
    int dim=Console.readInt("dimensione matrice ");
    int[][] matrice=new int[dim][dim];
    for (int i=0;i<dim;i++){
        System.out.println("elementi riga "+i);
        for (int j=0;j<dim;j++){
            matrice[i][j]=Console.readInt("");
        }
    }
    System.out.println("\nLa matrice e'");
    for (int i=0;i<dim;i++){
        for (int j=0;j<dim;j++){
            System.out.print(matrice[i][j]+" ");
        }
        System.out.println();
    }
    int[] a=creaVettoreSegmentiOR(matrice);
    System.out.println("\nRisultato creaVettoreSegmentiOR:");
    for (int i=0;i<a.length;i++){
        System.out.print(a[i]+" ");
    }
    System.out.println();
    System.out.println("\nRisultato creaVettoreTI:");
    creaVettoreTI(matrice);
    System.out.println("\n");
    annullaRigheDispari(matrice);
    System.out.println("\nRisultato annullaRigheDispari:");
    for (int i=0;i<matrice.length;i++){
        for (int j=0;j<matrice[i].length;j++){
            System.out.print(matrice[i][j]+" ");
        }
        System.out.println();
    }
}
```

```

}

static int[] creaVettoreSegmentiOR(int[][] m){
    //verificare che m sia quadrata
    int[] res=new int[m.length];
    int pointer=0;
    for (int i=0;i<m.length;i++){
        int somma=0;
        for (int j=pointer;j<m.length;j++){
            somma+=m[i][j];
        }
        res[pointer]=somma;
        pointer++;
    }
    return res;
}

static void creaVettoreTI(int[][] m){
    //verificare che m sia quadrata
    int to=0;
    for (int i=0;i<m.length;i+=2){
        for (int j=0;j<to;j++){
            if (m[i][j]%2==0) System.out.print(m[i][j]+" ");
        }
        to+=2;
    }
}

static void annullaRigheDispari(int[][] m){
    for (int i=1;i<m.length;i+=2){
        for (int j=0;j<m.length;j++){
            m[i][j]=0;
        }
    }
}

}

```