

Opgave 1.

```
public class Vector{  
  
    private double[] elementen;  
  
    public Vector(int n){  
        elementen = new double[n];  
    }  
  
    public double get(int i){  
        if (0 <= i && i < elementen.length)  
            return elementen[i];  
        else  
            return Double.MIN_VALUE;  
    }  
  
    public void set(int i, double e){  
        if (0 <= i && i < elementen.length)  
            elementen[i] = e;  
    }  
  
    public Vector som(Vector that){  
        int n = elementen.length;  
        if (n == that.elementen.length){  
            Vector res = new Vector(n);  
            for(int i = 0; i < n;i++)  
                res.elementen[i] = this.elementen[i] + that.elementen[i];  
            return res;  
        }else  
            return new Vector(0);  
    }  
  
    public double lengte(){  
        double res = 0;  
        int n = elementen.length;  
        for(int i = 0;i < n;i++)  
            res = res + elementen[i]*elementen[i];  
        return Math.sqrt(res);  
    }  
}
```

```

Opgave 2.
public static boolean isCijfer(char c){
    return '0' <= c && c <= '9';
}

public static String[] verdeel(String s){
    String s1 = "";
    String s2 = "";
    String[] res = new String[2];
    for(int i = 0;i < s.length();i++){
        char c = s.charAt(i);
        if (isCijfer(c))
            s1 = s1 + c;
        else
            s2 = s2 + c;
    }
    res[0] = s1;
    res[1] = s2;
    return res;
}

```

```

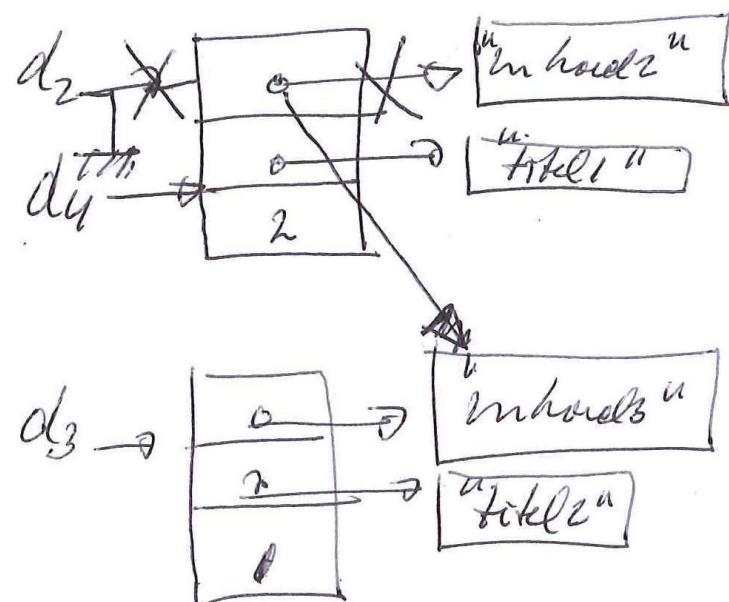
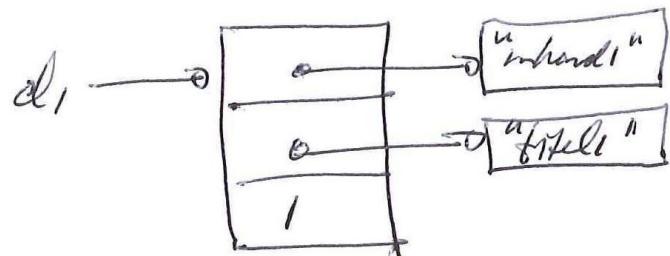
Opgave 3.
public double omtrek(){
    return 2 * (hoogte + breedte);
}

public boolean bevat(Punt p){
    double xlB = linksBoven.getX();
    double ylB = linksBoven.getY();
    double x = p.getX();
    double y = p.getY();
    return (xlB <= x && x <= xlB + breedte) &&
           (ylB <= y && y <= ylB + hoogte);
}

public Rechthoek roteer(){
    double xlB = linksBoven.getX();
    xlB = xlB - breedte;
    double ylB = linksBoven.getY();
    Punt p = new Punt(xlB,ylB);
    return new Rechthoek(p,hoogte,breedte);
}

```

Opgave 4.



- a. compileer error: length is een methode, haakjes ontbreken
- b. runtime error: d2 is null, null-pointerexception
- c. false, versie verschillen
- d. false, andere String objecten
- e. true, zelfde versies