

PEZ example – CPS109 --- Ferworn 2013

Pez (trademarked PEZ, in capitals) is the brand name of an Austrian candy and their mechanical pocket dispensers. The candy itself takes the shape of pressed, dry, straight-edged blocks (15 mm (5/8 inch) long, 8 mm wide and 5 mm high), with Pez dispensers holding 12 Pez pieces (Source: Wikipedia)



```
public class PEZ_package
{
    public static final int MAXPEZ = 12;
    public int PEZ_count;
    public String PEZ_flavour;

    //Constructor method 1
    public PEZ_package(String flavour)
    {
        PEZ_count = MAXPEZ;
        PEZ_flavour = flavour;
    }

    //Constructor method 2
    public PEZ_package()
    {
        PEZ_count = MAXPEZ;
        PEZ_flavour = "Orange";
    }

    // remove PEZ from package
    public int remove(int howmany)
    {
        PEZ_count = PEZ_count - howmany;
        return howmany;
    }

    // find out how many in package
    public int howmany()
    {
        return PEZ_count;
    }

    // find out what flavour
    public String flavour()
    {
        return PEZ_flavour;
    }
}
```

1

2



```
public class PEZ_dispenser
{
    public int PEZ_count;
    public String PEZ_flavour;

    //Constructor method
    public void PEZ_dispenser()
    {
        PEZ_count = 0;
    }

    // load PEZ dispenser
    public void load_package(PEZ_package pack)
    {
        PEZ_count = pack.remove(pack.howmany());
        PEZ_flavour = pack.flavour();
    }

    // eject a PEZ
    public String eject()
    {
        PEZ_count--;
        return PEZ_flavour;
    }
}
```

