x=3.5: false

Problem 1 _

Define the class **Segment** representing segment [A, B] of the Cartesian number axis

```
class Segment {
    double A,B;
public:
    Segment(double A, double B) : A(A), B(B) { }
    // ...
};
```

Then define methods and functions, so that for segment seg and number d of type double

- the value of d*seg or seg*d is a segment which is equal to seg scaled by d
 (i.e., coordinates of its beginning and end are equal to d*A and d*B, where A
 and B are coordinates of beginning and end of segment seg);
- the value of seg/d is a segment seg scaled by $\frac{1}{d}$ (segment seg 'divided' by d);
- the value of seg+d or d+seg is a segment shifted (translated) by d to the right;
- the value of seg-d is a segment shifted (translated) by d to the left;
- the value of seg1+seg2 is the smallest segment containing both seg1 and seg2;
- the value of seg(d) is true if, and only if, d belongs to seg.

Also, overload **operator** << so the following **main** function