PA14

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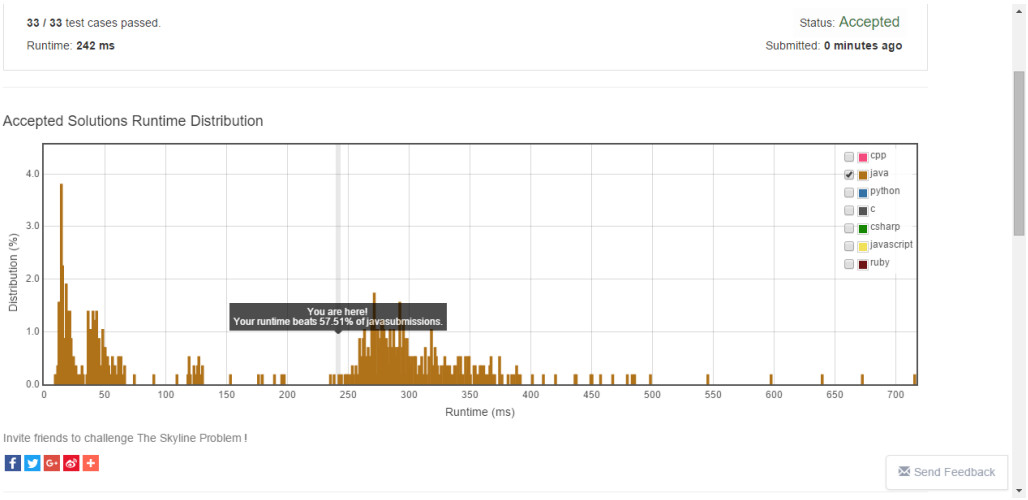
Reference：http://blog.csdn.net/xudli/article/details/46349383



Code（Java）

```java
public class Solution {
    public List<int[]> getSkyline(int[][] buildings) {

        List<int[]> ans = new ArrayList<int[]>();

        PriorityQueue<Integer> maxHeap = new PriorityQueue<Integer>(11, new Comparator<Integer>(){
            @Override
            public int compare(Integer x, Integer y)
            {
                return y - x;
            }
        });

        int len = buildings.length;
        List<int[]> bl = new ArrayList<int[]>();
        for(int i=0; i<len; i++)
        {
            int[] b = buildings[i];
            bl.add(new int[]{b[0], b[2]});
            bl.add(new int[]{b[1], -b[2]});
        }

        Collections.sort(bl, new Comparator<int[]>()
        {
            @Override
            public int compare(int[] x, int[] y) {
                if(x[0]!=y[0]) {return x[0] - y[0];}
                else {return y[1] - x[1];}
            }
        });

        int prev = 0, curr = 0; int sz = bl.size();

        for(int i=0; i<sz; i++)
        {
            int[] b = bl.get(i);
            if(b[1]>0)
            {
                maxHeap.add(b[1]);
                curr = maxHeap.peek();
            }
            else
            {
                maxHeap.remove(-b[1]);
                curr = (maxHeap.peek()==null) ? 0 : maxHeap.peek();
            }
            if(curr!=prev) {
                ans.add(new int[]{b[0], curr});
                prev = curr;
            }
        }
        return ans;
    }
}
```