

```
def largestRectangle(h):  
    stack=[]  
    area=0  
    i=0  
    while i<len(h):  
  
        if not stack or h[stack[-1]]<=h[i]:  
            stack.append(i)  
            i+=1  
  
        else:  
            top=stack.pop()  
            area=max(area,h[top]*(i-stack[-1]-1 if stack else i))  
  
    while stack:  
        top=stack.pop()  
        area=max(area,h[top]*(i-stack[-1]-1 if stack else i))  
  
    return area
```