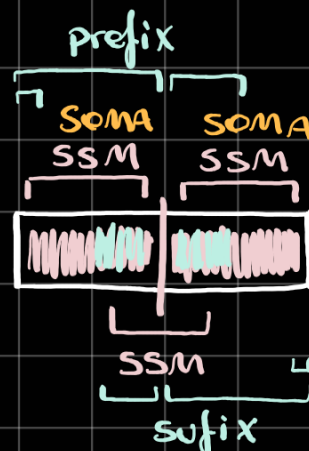


## \* Divisão e Conquista

prefix, suffix, SSM, soma



```

SSM(v, l, r)
    if (l == r)
        r.soma = v[l]
        r.ssm = r.pref = r.sufix = MAX(0, v[l])
    mid = (l + r) / 2
    left = SSM(v, l, mid)
    right = SSM(v, mid + 1, r)
    r.ssm = max(left.ssm, right.ssm, left.sufix + right.prefix)
    r.soma = left.soma + right.soma
    r.prefix = max(left.prefix, left.soma, right.prefix)
    r.sufix = max(right.sufix, right.soma, left.sufix)
    return r
    
```

solução →

soma total [l, r]

todo intervalo é negativo

Complexidade:  $O(n)$