Assignment 10

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Problem 10.2 *Greedy Algorithms*

b) **Bonus** (5 points)

```
Greedy_Selector(){
    // Assume S = {a[1], ... a[n]}
    // with activities sorted by f[i]
    A = {a[n]}
    first_idx_of_A = n

    while true
        // find the last starting activity
        j = 0
        for i = 1 to first_idx_of_A-1 do
            if f[i] <= s[first_idx_of_A]
                then j = i

        if j = 0
            then break

        for i = j+1 to first_idx_of_A-1 do
            if s[i] > s[j] and f[i] <= s[first_idx_of_A]
                then j = i

        // Add the element to the array
        A = A union {a[j]}
        first_idx_of_A = j

    return A
}
```