0	problem # 1
}	t) Algorithm:
	1. Sort the sols in terms of penalty in non-decreasing order
	2. Sort the sab in terms of deadline in mon-decreasing order
	3. For every sob in te queue
	4. Pick one whose penalty is minimum
	5. see if its deadline is also min.
	6. Zun the solo
	7. End for loop
	8. End
B	
	* Algorithm is sorting based on the penalty and the deadline so it will take mlogn time each.
	* After, we are assigning the job in O(n) so the time complexity is,
0	(Th) = O(nlogn)
4.	

	Problem #2	,
k	The Scheduler can exchange all Start	
	times with end times and can also	
	reverse the time directions 4 its	
	logically the same problem. The areedy	
	Strategy of selecting the first adulties	
	15 to end by selecting the last	
-	activity to Start with . The Same	
	activities will be scleeted just in reverse	
	order,	
*	Ship 1/200 1/11 / 2005 2/11 2/125	
	Since there will be overlapping of the other activities, Institutions will not like activities	
	that Starts early in the Day. The	
	activity will start at lost and scheduled	
	first. This helps the activities to stop	
	overlapping.	
*	Assume that activities have been sorted by	
	Start times in decreasing order,	
	Schedule (int n, int start[n], int finish[n]) {	
	Vector A=<17 /Assume Start[1] is sprted	
	int previous = 1	
	for i= Z ton o	
*	if (A[i] S[Previous]) &	
	A=A+ (17	
	Previous = i	
	3	
	retorn A	
	1 5 6 10 11 11 27	

Problem #3:

Algorithm Description:

- 1. Sort activities by start times.
- 2. Get the first element and append to the selected activity(actSelected).
- 3. If the current activities finishing time is less than or equal to the start time of the previous activity that was selected, then append current activity to the selected activity variable(actSelected).

Pseudocode:

The theoretical running time would be O(nlogn),

```
lastToStart(s, f) {
    n = len(s)
    A = [a1]
    i = 1

for m = 2 in n {
    if fm <= si {
         A = AU[am]
         i = m
    }
}
return A
}</pre>
```