		E-many		
-				7
-	./ -/			
-	15.09.201	SHEET #01	Wednesday.	•
-		Introduction to compiler science.		_
-				
-		fahmad @ jacobs - university de 30005		_
		<u> </u>	4	 
6		Problem 1.1		<del>-</del> -
		/ / -	4	
		E = { }		
		$A = \{\{a\}, \{b\}, \{c\}, \{d\}, \{e\}, \{f\}\}\}$		'
3		C = 0		
		U = U		
3			-	
-3-		E = [{e,f}}		
-3		A = { {a3, {b3, {c3, {d3, {e-f3}}}	co.	
		C = 2		
-				-   -
3				
3	<b>→</b>	E= { {e, f}, {d, f}}		
		A = { {a}, {b}, {c}, {d, e, f}}		
3		C = 1 + 2 = 3		-
3		C-LTL = )	7	
-	7			
-	● →	E= {e,f}, {d,f3,{c,f3}.		~
T		A = { {a}, {b}, {c,d,e,f}}	* 1	~
	- 1	C = 1 + 2 + 9 = 7	- 1	- '
		C-1167-	-	-
				1+
	->	E= \\e,f \\d,f\\ _\ \(c,f\),\\\b,f\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		\
		A={(a), {b, c, d, e, f}}		1
		C= 1+2+4+6=13 Minimal	L Spanning	_`_
		1 set	e. J	·
	<b>-&gt;</b>  /	E={{e-f}, {d, f}, {c,f}, {a,f}}.		-1
5	All Inc.			-
		A-{a,b,c,d,e,f}		_
		C= 1+2+4+6+8=21 Total Minimum Cost		
7		<u> </u>		-
	1			

```
FFLFLFRFRFFLFRF
FFLFR
 F F l f r
   Fflfr
    FFlfr
      Fflfr
       FFlfr
         Fflfr
          F F l f r
            Fflfr
             FFLFR
                comparisons made: 22
alignments used: 10
```

t = FFLFLFRFRFFLFRF p = FFLFR

```
t = FFLFLFRFRFFLFRF p = FFLFR
FFLFLFRFRFFLFRF
                         skip
fflfR
   FFLFR
    fflfR
                         0
        fflfR
          ffLFR
             FFLFR
```

alignments used: 6 comparisons made: 16

Problem 1.3

a) 
$$f_8(n) = log log n$$
 $f_6(n) = 2 log n$ 
 $f_1(n) = 1 n log n$ 
 $f_2(n) = n^2$ 
 $f_2(n) = n^2$ 
 $f_3(n) = n^n$ 

b)  $f_3(n) = n^n$ 

b)  $f_3(n) = n^n$ 
 $f_3(n) = f_3(n) = f_3(n)$ 
 $f_3(n) =$