Matveeva	Lada	lvanna	Lab	12	AIS	ID	991	198				
ask 1												
h(M) = 88												
Choose p	= 17 0	rud q=	- 11				187	- /	17.	11		
N = 187							160	= 6	l,5			
F(N) = (D-1) (C) - 1\ =	160						·			
, 1<	e < f(1	υ)										
e copri	me wit	h N.F.	N)									
			,									
e (7,1	87) - p	ublic k	lu.									
	V . / - Y		8									
Inverse n	40 d. la	6,40,4	S	.1:4								
INTOELZE N	w www	CATERIOU	ia cu	enu	ian							
de (n	ad 1 (s	,)) = 1										
7. d (m												
			0 -		10 -	n 0	4					
160 = 4						+ ' &	- dL					
4 = 6.	1 + 1		1 =	7 -	6.1							
	1		\									
1 = 4 -) · 1						0			
1 = 7							2.3		Z			
1 = 7					() . 4	- ,	8				
1 = 4.												
7-1 mo	d 160 =	23										
e (7,18	7) - pu	blic ne	y									
d (23, 18	t) - br	ivate ku	1									
			U									

Signir's private key:	
$S = h(M)^d \mod n$	
s = 88 25 mod 187	
s = 11	
Verify the signature of the message M	
Vally 1/2 signature of the processory	
Se mod n	
11 ⁷ mod 187 = 88	
In this case we will assume that the signature is genuine	
IN THIS case we will assume grown the signature is gentline	
Task 2.1	
TWIK & . I	
n = n + 0 = 964 h = 13	
n = p + q = 851 $p = 23851 \mod 2 = 1 q = 851 = 37$	
$851 \mod 2 = 1$ $q = 851 = 37$ $851 \mod 3 = 2$ 23	
$851 \mod 5 = 2$ $851 \mod 5 = 1$ $\Rightarrow = 23, q = 37$	
851 mod 7=4	
851 mod 11=4	
851 mod 13 = 6	
851 nuod 14=1	
851 mod 19 = 15	
851 mod 23 = 0	
Task 2.2.	
p = 3, $q = 11$, $n = 33$, $e = 7$, $d = 3$	

