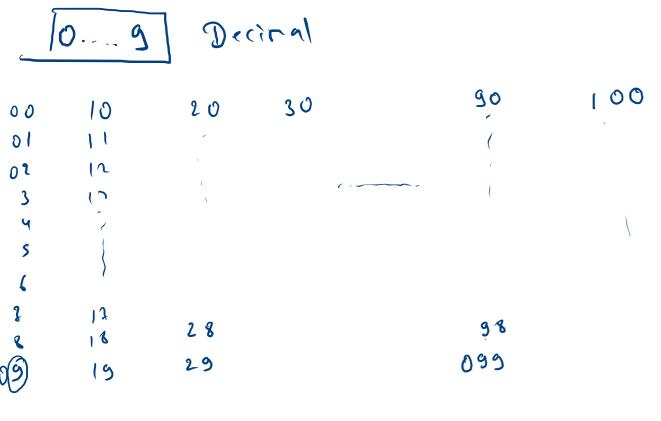
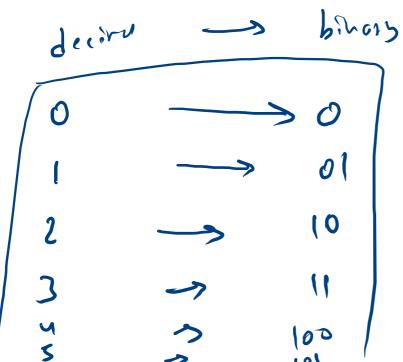
Inchor f(n) = factorial of n n = s s = hel(n)Let g = hel(n)

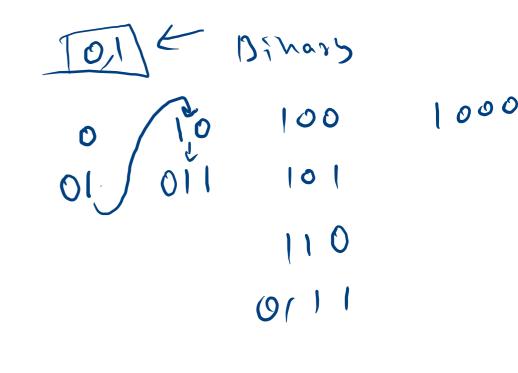
int f = 1;

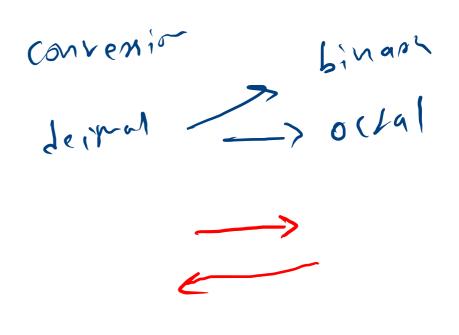
for (inti=1); i = f; i

4= 34732453 (OUM 20





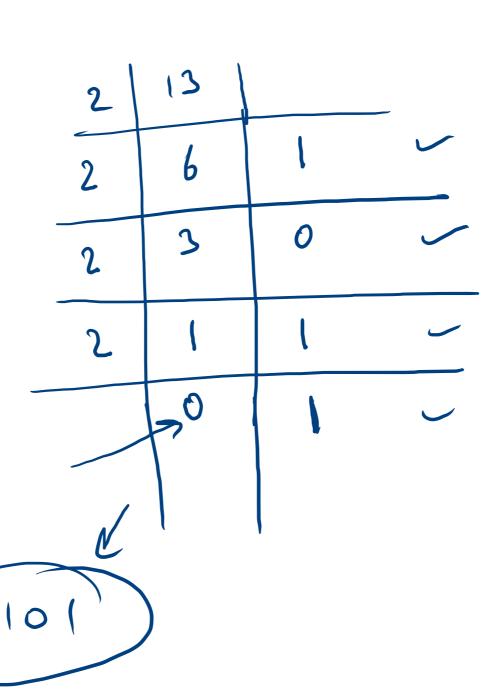




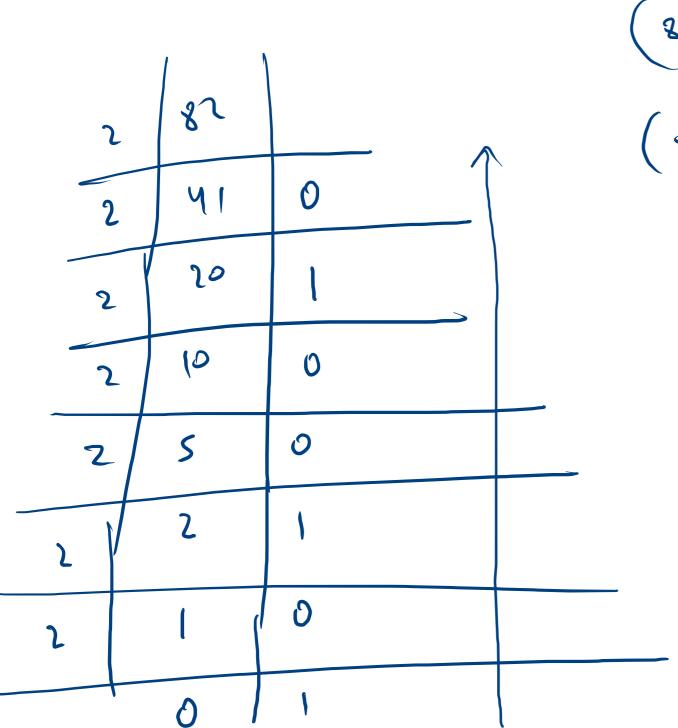
octal

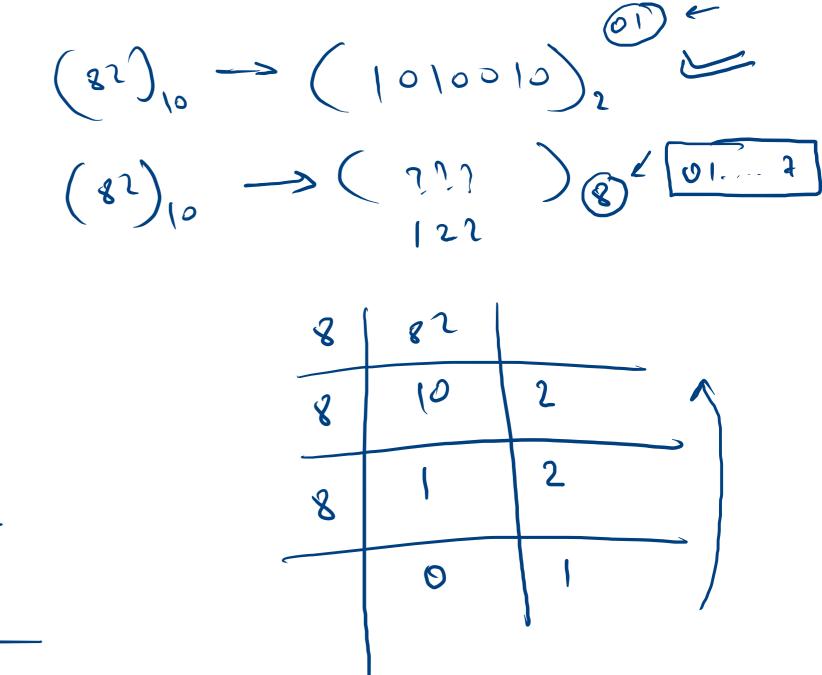
heraderinal
O... 9 ABCDEF

$$(s)_{10} \rightarrow (?)_{2}$$



D	Q		
0	8		
\	•		
1	(8)		
3 -			
4	(03		
5	(01		
((()		
Ž -			
2	1000		
9	(00)		
(0	1010		
(\			
12	-> 1100		
13	- (1101)		





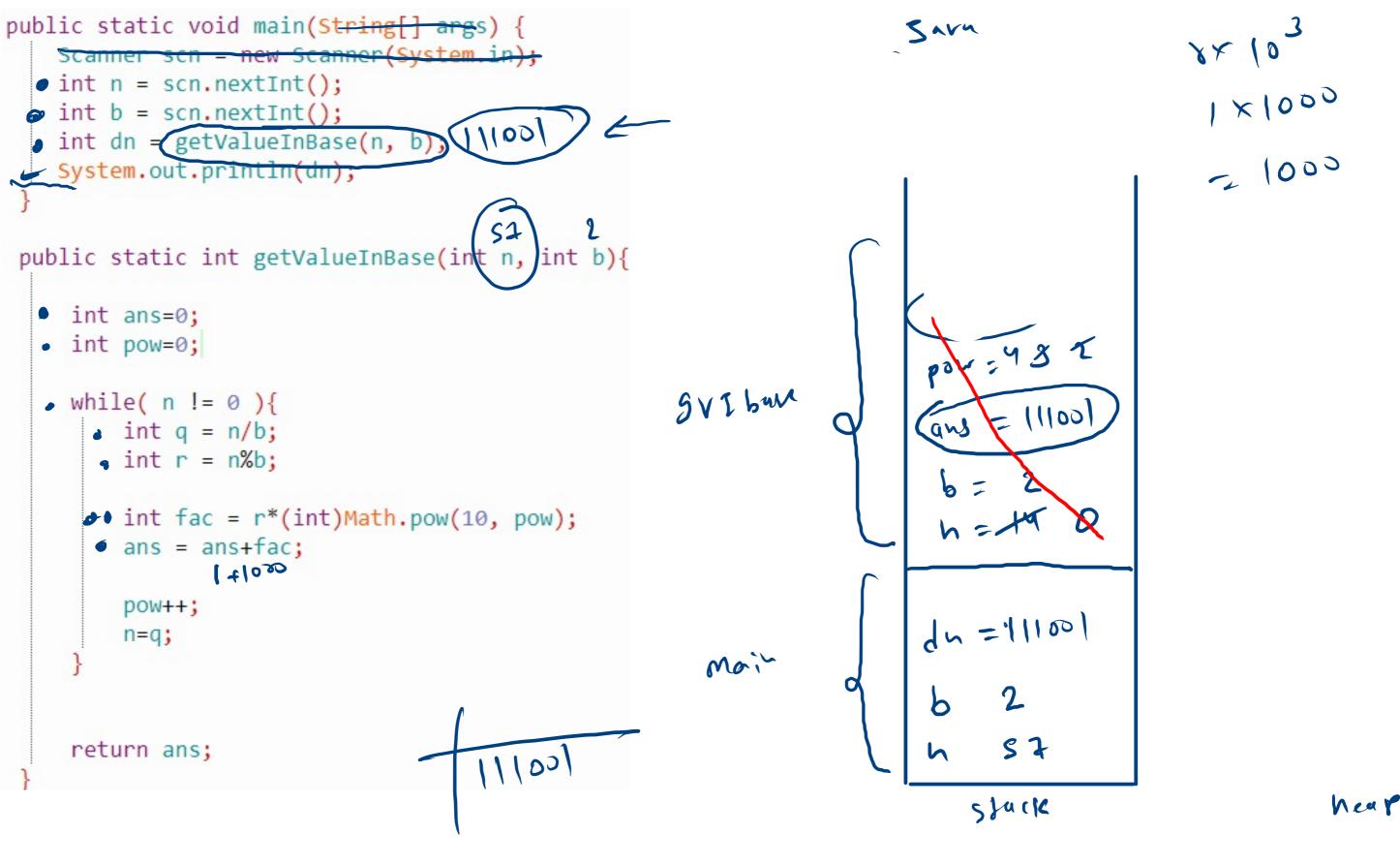
$$(3)_{10} \longrightarrow (3)_{10}$$

$$(52)_{10} \longrightarrow (3)_{10}$$

b2 3	h 2 52		
b2 3	9°= 19	r= 0	× 10°
6= 3	1 6 h =	Y=	× 101×
b=3	2 = 2 n=	r= 0	*10
	2:0 N2)	Y2 2	×103

1x (ins) wash lon (10) (om)

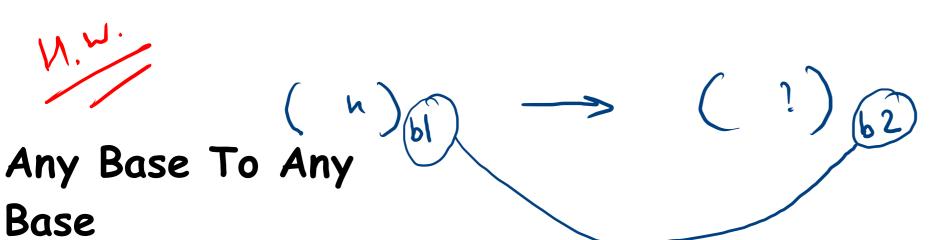
9 = h/b Y = 40/06 1+vol = nod



57

2 × 8 16 64

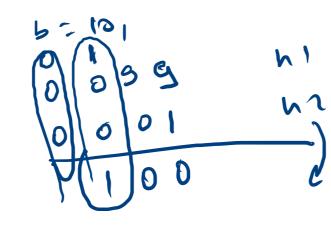
int ans 20 in1 mulhi = 1) 6° while (n 1,=0) 2 X5 N6/210 facz rxmuti ans z ans + fa (WARE WARE h = 9



$$b = 8$$
 $h_{12} = 567$
 $h_{2} = 111$
 700
 $1 = 1$
 $5 = 67$
 $5 = 67$

$$b = 8$$
 $0...7$
 $h1 = 567$
 $h2 = 111$

6=8 h1= 5 6 7 h2=1 2 3



int (an) = 0; jul multi = 1) 10°
jul aus = 0 91 2 41/10 81 = W1.1/10 922 h2/10 82 - n2 % 310 sun = 71+72+(97) cam; sun/b 21512 Sun 11.6 ans = aus + disilxmuhi mv1 H = mv1 h x 10 n1=91; 42=92

```
0
                                  6= 8
                                                                                                                  0
                                  N12
int ans=0;
int multi = 1;// 10 ^ 0
                                                                      07
                                                                                                                   0
                                                                                                       0
                       1 >0
int carry=0;
                                   h2 2
while( n1>0 || n2 >0 || carry > 0 ){
                                                                           3
  • int q1 = n1/10;
                                                      2
   int r1 = n1\%10;
   int q2 = n2/10;
   int r2 = n2\%10;
                                                                 21= 7
   int sum = r1+r2+carry;
                                                                                                      097
   carry = sum/b;
   int digit = sum%b;
                                                                                                       6 + 0 (
   // ans
                                                                  92=0
                                                                                                        100
   ans += digit*multi;
                                                                 1227
   multi *= 10;
   n1 = q1;
   n2 = q2;
```

return ans;



Any Base Subtraction

$$b^{2} 5$$
 $h1^{2} 1220$
 $h2^{2} 31$

1220 4210

LM2 (1130) L

pro= musd(b, n2)

mulh = 1 ; 10°

9 = 41/10

ans =0

ans aba (b, ans,

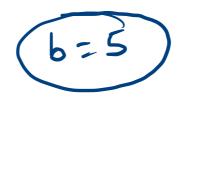
h1=9

mul unly with sin, 4disil (b, h2, 81)

any bak addition (b), h1, h1) nithe

$$m \rightarrow 31$$
 $m \rightarrow 1220$
 $00 \times 10^{\circ}$
 $+ 1120 \times 10^{\circ}$
 $+ 31000 \times 10^{\circ}$
 $+ 31000 \times 10^{\circ}$

NI 421







Sum = 81+12+ (ali)