```
Recuession: Factorial
                                                                                     #include <
                                                                           int hof ( int n1,
                                                                                                                                                                                                                                                           250
                                                                 30
                                                                                               GCD
                                                                                                                                                                                                                                                                             Hinclude < state. h>
                               pa scanf ("%d
gretuern 0;
                                         paint (" Entre
                    pount ("G.C.D
   hef(n1, n2)).
                                                                                                                                                                                                             peunt
                                                                                                                                                                        7 mg
                                                                                                                                                                                                                                                                  adorual (int m);
                                                                                                                                                                                                                                                          main ()
                                                    n1, n2;
                                                                                                                                                                                          outwern 0;
                                                                                              of 2 mos.
                                                                                                                                                            (n>=1)
                                                                                                                             return 10
                                                                                     stdio.h>
                                                                                                                                                                      factorial (Int m)
                                                                                                                                                                                                                                    ("Enter
                                                                                                                                                  return
                                                                                                                                                                                                              "factorial of % d is
                                                                                                                                                                                                                          % d "
                             2 integeus");
%d", &m1, &n2);
                                                                          とかせ
                                                                                                                                                                                                                        ", &n)°
                                                                                                                                                                                                                                                                                      of a
                                                                                                                                                  3 *
                                                                                          using rucuusion
                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                   ~~.")°
                                                                         なみ)
                    and % d
                                                                                                                                                factorial (n-1);
                                                                                                                                                                                                                                                                                       30
                                                                                                                                                                                                               % o d
                   n1, n2
                                                                                                                                                                                                              factoui
```

Ques implimentation	int main() { int n=4; townsof Manoi (n, 'A', 'C', 'B'); Hetuun 0;	tower of Hanoi (n-1, from use, for used, aux experient (" more disc % of from used of home of Hanoi (n-1, aux used, to god, to	"In Move dise!	Tower of hanoi using recursion. #include<**statio.h> notal burestof Hanoi (int m, chart fuem charto_ wad, char aux_end); { i(m==1)	<pre>fut hcf(int m1, int n2) { if(n2)=0) sutuan hcf(n2, m1% m2);</pre>
		end, from mod),	feren mod %c to	m wod	

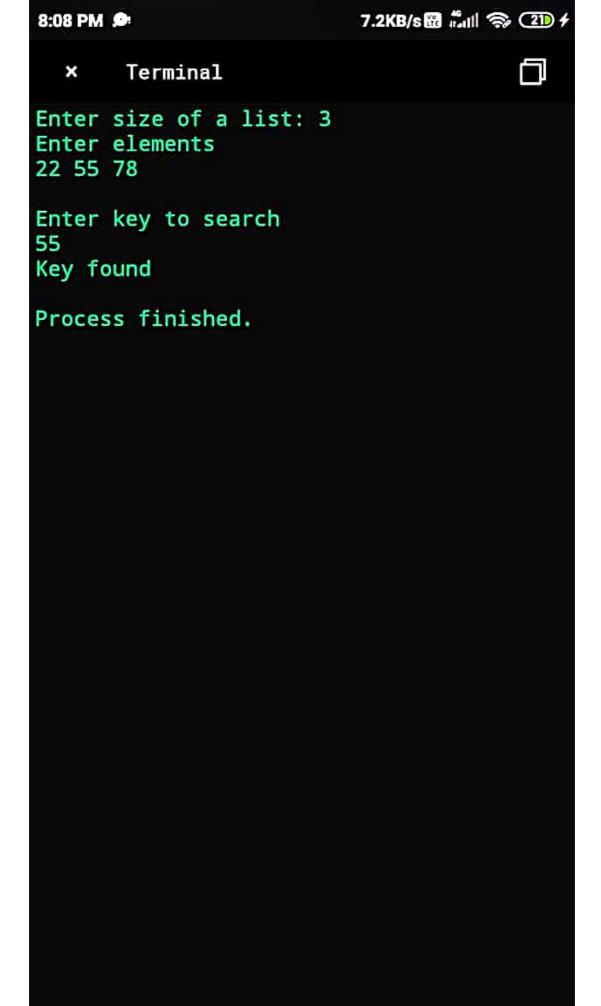
```
Youd
                                                                                                                                                                                                                                                 puint ("Enter size of list");
scant ("" % d" & size);
perint ("Enter Element in
force (=0; i < size; i++)
                                               Void
                                                                                                                                                                                 scant ("/od", & key).

binasy-search (list,
                                                                                                                                                                                                                                                                                                                                            Youd
                                                                                                                                                                                                                                                                                                                                                   void binary-search (int [7, int, int
                                                                                                                                                                                                                                                                                                                                                                  #include <stdio. h>
                                                                                                                                                                                                                                                                                                                              int main()
                                                                                                                                                                                                                      bubble_sout (list, size);
                                                                                                                                                 the
Ed binaey-search (ent list-13, int low, ent nigh, int wind; Usw > high)

l) (low > high)

puint; ("Key not found");
                                                                                                                                                                                                                                                                                                                                                                          Binary Search
                                                                                                                                                              bubble
                                                                                                                                                                                                                                                                                                                                        bubble _ sout ( int [] , int);
                                                                                                                                                                                                                                                                                                    bey, size, ?;
                                                                                                                                                 lemp.
                                                          ११११
                                                                        list [j]= tomp)
                                                                                                                                                        sout (int list[], int size
                                                                                                                                                                                                                                                              Elemente in")
                                                                                                                                                                                                         key to search ").
                                                                                                                                    0++)
                                                                                                                                                                                                                                                                                        list");
                                                                                                                                                                              O, size, key);
                                    int kuy
```

	w-en,	3 25 7
	4-	putuon; } (List [med] == key) A (List [med] == key) A puint (" Key found"); } A puint (" Key found"); }
	high, key);	Date Page
		11 150 100



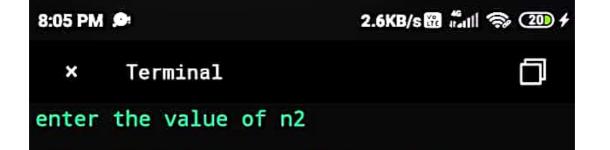


8:07 PM 🗪



Enter a positive integer: 8 Factorial of 8 = 40320 Process finished.





Move disk 1 from rod A to rod B Move disk 2 from rod A to rod C Move disk 1 from rod B to rod C

Process finished.

