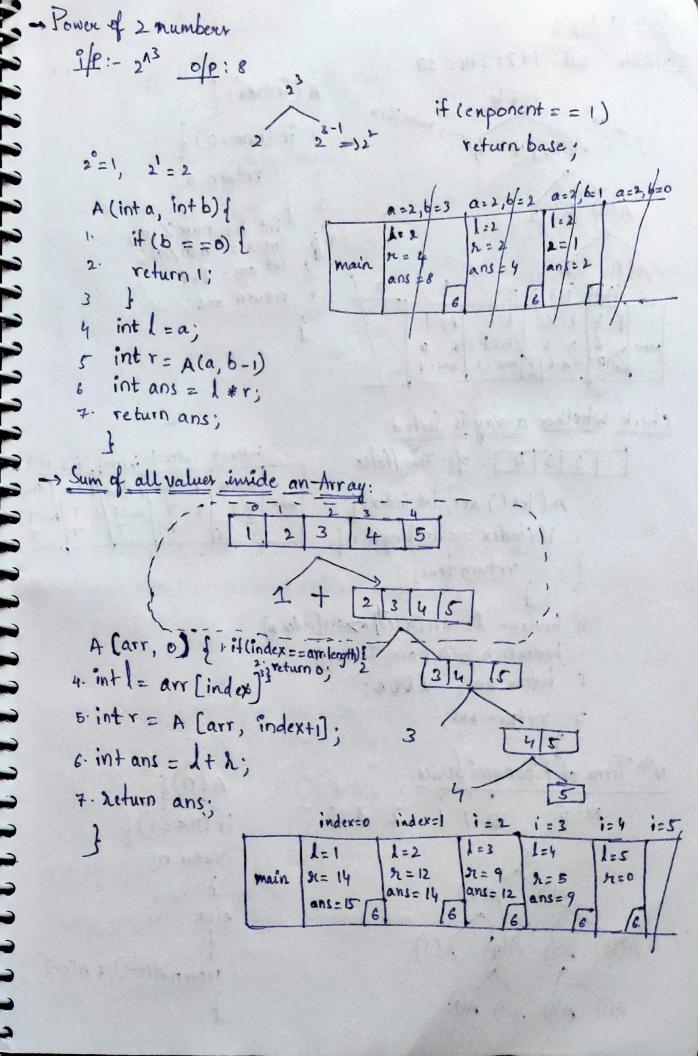


Print Mumbers to Ascending Order: B(co) 4 P(5) 9 if (n>0), 3. A(n-1) 4. Sout (n) 0/11 1,2,3,4,5 A(1) P(1) Print Sum of first n natural numbers, f(1) = 1, f(2) = 1+2 = f(1) + 2 + f(3) = f(2) + 3, Sum upoto 4 natural numbers. (Al4) - Recurrive leap of faith. sum (n) { if (n = = 1) { return ! return n+ sum (n-1); Factorial: n = 5,0 p: 120 t(0)=1, t(1)=1 f(2) = 2 \* f(1) return 1: f(3) = 3 \* f(2) A(1) return no A(n-1);



Sum of digits: If. 1234: 0/1: 1+2+3+4= 10. 1)100 A (fotum) of num 10 A(123) + 4 1 if (num=0) of return o. A(12) + int 1 = num /10 In+ + = A (n/10) e int ans = 1+n miles A(I) 7 · return ans; Jans 23 Jans= 1 check whether array is Sorted; index=0 index=1 index=2, i=3, i-4 ] of P: True Ifalse. Latrue 1= true 1=true 1=true 1 struc A (int [] arr, int index) { 1= T , if (index = = arr-length-1){ return true, 9 boolean le arr[index] =>arr[index ii] 5 boolean r = A (arr, indext) bodean ansz Leen; return ans; · frixabili, ma) Nth Term of Fibonacci Scriet: 011 235 if (n <= 1) } retur n: A14) A(3) A(2) A(2) A(1) return A(n-1) + A(n-2) A10) A(1) A(0)

-> Remove in from string: ambmem - de: abc A (string s) a + A(mbmcm) char ch = s-charAt(0); if (ch = = 'm') [ return A (s. substringli)). return ch + Als: substring > First and Last Occurrence of a character in a String. String s= "abaacdaefaah", element=à ofe: first: o func (strings, int first, int last, charelen, intindex) if (index==s-lengthe) if (ch = = element)

if (first = = -1) f first = index; s.o.pln (first); last= last = -1 2 last: first] Sophillast); } func (s, first, last, eleme, indextr);

String Reversal: "hello" -, "olleh" revString (string s){ funcially h if (s lengths) == 0){ return"; funcillo) è l = rev String (s. substring (1));

x z String. value of (s. charAt(0));

an ( = 1) func (10) 2 ans = l+r; return ans; Han Same \* Subsequence of a String. abc in from left to right a ab be abc ba, ca, eba X -) first start with empty string, at each instance we will have 2 options
Pick the current character (or) don't pick the character: Pick the current character (or) don't pick the character. don't pick. subseq. (str., index, newstr)

ab a

b

if (index = = str.length)

abc ab ac a

bc b

return; 

