

PAC Chart:

<u>DATA GIVEN</u>	<u>REQUIRED RESULT(S)</u>
→ Series of numbers/digits	→ Number of times each digit between 0 and 9 inclusive was entered.
<u>REQUIRED PROCESSING</u>	<u>SOLUTION ALTERNATIVE(S)</u>
<ul style="list-style-type: none">→ Keep a separate counter variable for each digit.→ Initialize each counter to 0.→ Ask user to enter a number.→ Check if number is between 0-9.→ If so, increment the corresponding counter and move back to step 3 (Asking user to enter a number)→ Otherwise, output each number from 0-9 with number of times it was entered.	<ul style="list-style-type: none">→ Array may be used instead of separate variables.→ Use of a loop will make the job easier.→ Exit the loop when anything is entered which is not a number between 0 and 9.

IPO Chart:

<u>INPUT</u>	<u>PROCESS</u>	<u>MODULE REFERENCE</u>	<u>OUTPUT</u>
→ Number(s)	<ul style="list-style-type: none">→ Initialize 10 counter variables with 0→ Start the loop→ Take number as input→ Check if number is between 0-9→ Increment counter if it is→ Exit loop otherwise→ Output each counter along with corresponding number.	<ul style="list-style-type: none">→ SET→ REPEAT→ INPUT→ IF-ELSEIF→ INC→ UNTIL→ PRINT	→ How many times was each number entered