REPORT ARMSTRONG\_NUMBERS.  
  
*\*{   INSERT         T41K933231                                        1*  
  
*\*\* declaring Parameter value needed;*  
PARAMETERS:  
num type STRING.  
  
*\*\*Declaring the data types needed to run the program 4 integers*  
DATA:  
      length type i,  
      num2 type i,  
      index type i,  
      total type i.  
  
*\*\* Here I am retrieving the length of the number submitted*  
length = strlen( num ).  
  
  
*\*\*Here I am simply chating the number from string to integer*  
num2 = num.  
  
*\*ensuring my total integer is 0*  
total = 0.  
  
*\*\* starting a while loop to loop through number*  
While index < length.  
  
*\*\*Here I am setting total value; continually adding it to itself for each number. \*\* indicates to the power of*  
total = total + num+index(1) \*\* length.  
  
*\*\*Adding one to the index so my loop will end correctly*  
ADD 1 to index.  
  
*\*\*ENDING WHILE LOOP*  
ENDWHILE.  
  
NEW-LINE.  
  
*\*\*chrcking the value of total = the number submitted*  
IF  
  total = num2.  
  Write 'Congratulations this is an armstrong number'.  
  
ELSE.  
   Write 'Sorry this is not an armstrong number'.  
  
   ENDIF.