|  |
| --- |
| // Q1: Write a recursive function that takes a list of numbers as an input and return product of all numbers in list. |
|  |  |  |
|  |  | class S1 { |
|  |  | public static void main(String[] args) { |
|  |  |  |
|  |  | int[] ary = {}; |
|  |  |  |
|  |  | Integer p = productOfAllElements(ary, 0); // Fixed |
|  |  |  |
|  |  | if (p == null) |
|  |  | System.out.println("List is empty :("); |
|  |  | else |
|  |  | System.out.println(p); |
|  |  | } |
|  |  |  |
|  |  | static Integer productOfAllElements(int[] ary, int index) { |
|  |  |  |
|  |  | if (ary.length == 0) { |
|  |  | return null; |
|  |  | } |
|  |  |  |
|  |  | if (index > ary.length - 1) { |
|  |  | return 1; |
|  |  | } |
|  |  |  |
|  |  | return ary[index] \* productOfAllElements(ary, index + 1); |
|  |  | } |
|  |  | } |