



2. The company also implemented Material Requirement Planning (MRP) system in bracket department. As an expert in MRP system, you are required to assist this company to prepare a production plan based on highlighted below. This bracket is made up of a base, two springs and four clamps. The base is assembled from one clamp and two housings. Each clamp has one handle and one casting. Each of housing has two bearings and one shaft. There is no inventory in hand.

- a) Design a product structure noting the quantities for each item and show the low level coding.

Determine the gross quantities needed of each item if you are to assemble 50 brackets.