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1. Given a 5 element stack S (from top to bottom: 2, 4, 6, 8, 10), and an empty queue Q, remove the elements one-by-one from S and insert them into Q, then remove them one-by-one from Q and re-insert them into S. S now looks like (from top to bottom). [3]
2. Distinguish few differences between stack and queue with examples and applications of both of these data structures. [5]
3. Write a program to store and print the roll number, name, age, address and marks of 5 students using structure.
  - (a) Declare the structure. [3]
  - (b) Scan inputs and store correctly in structure. [5]
  - (c) Print all the information correctly. [4]