

1. Both are linear data structures that store pieces of elements in a joining chunks of memory. Both allow access to element(s) by an index, however, a stack can only access elements by Last In, First Out. Both can either be fixed or dynamic to the elements of the same data type.
3. Final output for 's': 8 12
4. The reason why the hot plate is analogous to a stack is that the salad plates are the last item to be put on the table, in which the customer eats it first, leaving older plates underneath the customer's priority.
5. Final output for 'q': 12 5
6. FIFO means the first element that is inserted is the first one to be removed while LIFO means the last element to be inserted is the first one to be removed.
7. A line of customers waiting for a cashier and print jobs waiting to be processed by a printer.