Name anousers

1. (2 points) In addition to "empty," what are the methods that are part of a pure stack interface?

push pop, poll

2. (1 point) What do the acronyms LIFO and FIFO stand for?

last-in, first-out first in last - out

 (3 points) Describe how a queue differs from a stack, using the terms LIFO and FIFO appropriately.

a quere has FIFO behavior, like a line of people & a grocery store. a stack has LIFO behavier, like a stack of plate,

 (2 points) Explain the difference between the "add" and "offer" methods of the pure queue interface. (Hint: Under normal circumstances, they have identical behavior.)

When the guear is full, additions an exception while offer () just returns falso. You might seek the later if a full gique is normal & doen't require throw an evception up la more

5. (2 points) An ArrayList contains 42 alphabetized, lowercase words. The word you're searching for is at index 10. How many calls (initial and recursive) of a recursive binary search method will be required to locate you word? Show your work.

indusin 6 exclusive start end mid 0 42 $21 \rightarrow 10 < 21 :: left$ 0 $21 < 10 \rightarrow found it$ initial coll: O 1st recessived: O