

Zia Hussaini

Data Structures

Professor Wang

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CS 304 Homework Assignment 3

12.

- a. False
- b. True
- c. True
- d. False
- e. True
- f. False
- g. False
- h. True
- i. True
- j. True
- k. False

43. Linked based memory allocation uses a free memory location and then links the stack through reference pointers, whereas an array-based stack's memory allocation is sequential. The array's length must be defined so it can allocate exactly that much memory.

50.

- a. 61
- b. 75
- c. 96
- d. 423

4.

- a. if (base > limit)
 return -1;
- b. else
 if (base == limit)
 return 1;
 else
 return base * puzzle(base + 1, limit);

5.

- a. -1
- b. 840
- c. 1

