

1 -- What is the difference between Front-end and Back-end?

= Front-end:

interested in user interface and visual design then receive file.fig as a sketch from ui designer, this makes inputs, color, media anything related with the visual design.

= Back-end :

related with server and receiving data from the application, this determines authentication and authorization for each user.

2 -- What do you know about the following: arrays, strings, linked lists, and hash tables?

= Arrays :

sequential of any datatype (similar) have a fixed size cannot add on it,

if you want add you can make copy from original and add on a new array and that consumes part from memory,

you can call any item by index like (`arrNums[2]` = third item) to start from `index[0]`;

= strings :

datatype in all language programming represents word or text, a sequential of characters in one cell can be used to store text,

= linked lists :

dynamic sequential collections of nodes each node contains element and pointer, that pointer refers to the next node, you can insert or remove easier than array.

= hash tables :

way to store data as key and value this fast to search by go to key, using function hashing that it takes the (added item % size array = cell you can add in it).