1.A screenshot of a computer

AI-generated content may be incorrect.

2.

3. For this problem I set a never ending while loop to continuosly prompt the user for a number of after their initial array size.

Then beyond that I had to create a counter to keep track of how many times the loop was interating and every iteration I checked

to see if the user has reached the size of the array, if not it would keep working as is. If so the I would double the size of

the array and reallocate the contents of the old array into a newly resized array. It will then continue to prompt the user for

an int until it would have to repeat that cycle over again. The code will work endlessly until the user quits(Ctrl + c) the program.

A new print statement was added inside of the while loop to print the value of the counter every iteration. This change was made

because the print statement outside of the loop would never be reached.

4. A screenshot of a computer program

AI-generated content may be incorrect.

5. An object is an instance of a class what this means is when having an overall category of things, an object

would be something that is in that IS that category but just one of an endless amount of it.

6. Linkedlist can overcome a problem we have with dynamic memory is memory allocation. In problem 3, we had to find a way to

expand the memory given to an array and reallocate it's contents into the new array. However with linkedlists, having a pointer

to a memory address means that we could have the contents of the list in any given memory address as long as the node before is

pointing the the nest head's memory address.

7.