

CS 161 Recitation

Worksheet: Week 8

1. What is the difference between dynamically allocated memory and statically allocated memory? In the C++ programming language, how do you indicate which type you want to use?
2. If you know the size of an array at compile time, which type of memory allocation can you use? (consider the question carefully)
3. Why is a dynamically allocated array well-suited for the 2nd player's scoresheet in your Yahtzee design?
4. Write a function called "get_array()" that will ask the user for a size, then return an array of integers on the heap of that size. Consider what type this function will return:

```
_____ get_array() {  
  
  
  
  
  
  
}
```

5. What would be the issue if a C++ programmer wanted to allocate the array (from the function above) on the stack? Consider variable scope.
6. Looking at the function we made in question 4, how could we have made this function a void function? Write an example function call and prototype for this new version.
7. How do you make an array of C++ strings? How would you make an array of C-style strings?