Runtime And Memory Cheatsheet

Runtime:

- Always calculate the runtime and ensure it is fast enough before implementing a problem

1) Calculate the big O runtime
   ie) O(N*M^2)
2) Plug in the values of the variables into the big O runtime:
   ie) N = 100, M = 1,000. N*M^2 = 100,000,000
3) Your code is fast enough if the number of operations is:
   Java: <= 10^8 operations
   C++: <= 5*10^8 operations

Memory:

- Only calculate the memory required if you think you are using too much memory

1) Put all your arrays in a code here: https://codeforces.com/problemset/customtest and click run to get the memory in KB.
2) Convert the memory from KB to MB here (or by googling)
3) If the memory is <= 256MB (and the problem doesn't specify a different memory constraint than normal), the memory is within bounds.