Approach Lab 1

# First Glance Approach at Functions

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| addItem | For this function, I’ll reference the use of a stack and implemented it in the same manor. |
| remove | Use the array capabilities to |
| removeTop | For this function, I’ll reference the use of a stack and implemented it in the same manor. |
| find | Since the bag was based on a pointer array, I’ll use the capabilities of arrays to loop through the array while comparing values. |
| inspectTop | Same as removeTop but do not delete the entry |
| emptyBag | For this function, I’ll reference the use of a stack and implemented it in the same manor. |
| += | For this function, I’ll reference the use of a stack and implemented it in the same manor. |
| size | For this function, I’ll reference the use of a stack and implemented it in the same manor. |
| bagCapacity | For this function, I’ll reference the use of a stack and implemented it in the same manor. |

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| --- | --- |
| clear | Calls the emptyBag function |
| insert | Calls the addItem or += function |
| remove | Calls remove function |
| removeAny | Calls removeTop function |
| find | Calls the find function |
| size | Calls bagCapacity function |

# Notes Throughout

* Default max is 10, but ultimately will be defined by the user
* KVPair should be in BDictionary.h, not ABag.h
* insert does not work without inputting k and e into a fill variable
* Keep function definitions on the same page, but at the bottom. Adding a cpp file makes things needlessly difficult
* Add loop in remove and find function
* Make sure loop goes “backwards” or top-down to correctly mimic the concept of a bag

# Summary/Reflection

This lab was relatively difficult, but mainly because of my first impressions of the lab. I presumed that the KVPair would be held in ABag. Since I tunnel visioned myself to only working on ABag, it caused a lot of problems when I started BDictionary. Other than this mistake, this lab was fairly easy to understand; understanding how BDictionary is merely a translator, so to speak, between ABag and main.