

```

each: function(e, t, n) {
  var r, i = 0,
      o = e.length,
      a = M(e);
  if (n) {
    if (a) {
      for (; o > i; i++)
        if (r = t.apply(e[i], n), r === !1) break;
    } else
      for (i in e)
        if (r = t.apply(e[i], n), r === !1) break;
  } else
    for (i in e)
      if (r = t.apply(e[i], n), r === !1) break;
  return r;
},
trim: b && !b.call("\uffff\u00a0") ? function(e) {
  return null == e ? "" : b.call(e)
} : function(e) {
  return null == e ? "" : (e + "").replace(C, "")
},
makeArray: function(e, t) {
  var n = t || [];
  return null != e && (M(Object(e)) ? x.merge(n, "string" == typeof e ? [e] : e) : h.call(n, e), n
),
isArray: function(e, t, n) {
  var r;
  if (t) {
    if (n) return m.call(t, e, n);
    for (r = t.length, n = n ? 0 > n ? Math.max(0, r + n) : n : 0; r > n; n++)
      if (n in t && t[n] === e) return n;
  }
}

```

# Mid-Quarter Presentation

## Diana Kalantar

# Initial Steps – Planning

## 1. Quarter 4 Project – Notes App

The Notes App would serve as a place to record and store information of a person's choosing in a way that can be easily retrieved.

- > By April 26: Starting cover page and creating two functions for making or viewing notes
- > By May 3: Finishing cover page and finishing function for creating notes
- > By May 10: Finishing function for viewing notes and starting to make that more complex
- > By May 17(Last Day of School): Finishing any new additions and finalizing project

## 2. CHANGE OF PLANS

I am taking the CS50AI Course on Learning.edx and upload my notes as I continue.



# Steps Taken – Notes App

1. Created a dictionary where a users notes would be stored
2. Prompted the user to choose whether they would like to create a new note or view a previously created note
  - a. If they picked new note then the user was then prompted to enter a title and a note which would then be stored in the dictionary
  - b. If they picked to view a note then the user would be prompted to enter the title of the old note, returning their previously entered note

I did not finish this task because I decided to pursue something else.

# Steps Taken - CS50AI

- I am currently taking the CS50AI course on edx.org, where I am learning the basics of python coding in artificial intelligence
- Throughout this course so far, I have watched a lecture and have taken notes on the basics of Search Problems, applying that to my past knowledge of python
- I will outline my learning on the next page!

# Learning - CS50AI

So far, I have covered Search Problems which include figuring out the sequence of actions that will take someone to their desired goal.

- Search problems involve many features, one of the most important ones being Nodes which are data structures that keep track of a state, parent(node before the current one), action, and a path cost.

# Learning - CS50AI

- There are Uninformed Searches which do not use any specific knowledge
  - Breadth First Search involves looking at all surrounding nodes while Depth First Search explores from the first node until a solution is found
- Informed Searches use knowledge specific to a problem to find a solution
  - Greedy Best-First Search is a search algorithm that expands a node using heuristic functions(chooses the smallest Manhattan Distance or cost to reach goal when approaching solution). A\* Search does a similar thing but also looks at the cost to reach the node as opposed to just the cost to reach the goal