```
#include "decl.h"
    #include <stdio.h>
 3
    #include <stdlib.h>
 4
    #include <string.h>
 5
 6
    /**
 7
     * Allocates a new PlayerInfo struct and assigns fields
8
     * @param name The player's name
9
     * @param date The current date
10
     * @param gen The number of generations
11
      * @return a new PlayerInfo struct
      * /
12
13
    struct PlayerInfo *createPlayerInfo(char *name, char *date, int gen)
14
15
         struct PlayerInfo *info = malloc(sizeof *info);
16
         info->name = name;
17
         info->date = date;
18
         info->numGenerations = gen;
19
         return info;
20 }
21
   /**
22
23
     * Returns a line of user input from the console without overflow
2.4
     * @return A string containing the input
25
     * /
26
    static char *getLine()
27
28
         char *buffer = malloc(BUFFER SIZE);
29
         char temp;
30
         int len = 0;
31
         while ((temp = getchar()) != '\n' && len < BUFFER SIZE - 1)</pre>
32
         {
33
             buffer[len++] = temp;
34
35
         buffer[len] = ' \setminus 0';
36
         return buffer;
37
    }
38
39
40
     * Prompts the player to enter pertinent info
41
     * /
42
    void playerInfo()
43
44
         char *name, *date, numBuffer[BUFFER SIZE];
45
         int numGenerations = 0;
46
         bool isValid = FALSE;
47
48
         printf("Enter Your Name >> ");
49
         name = getLine();
50
51
         printf("Enter Today's Date >> ");
52
         date = getLine();
53
54
         printf("Enter The Desired Number of Generations >> ");
55
         scanf("%s", numBuffer);
56
         isValid = sscanf(numBuffer, "%d", &numGenerations);
57
58
         /*Prompt the user for valid input if necesssary*/
59
         while (!isValid) {
             printf("Please enter a valid Integer >> ");
60
61
             scanf("%s", numBuffer);
62
             isValid = sscanf(numBuffer, "%d", &numGenerations);
63
         }
64
65
         struct PlayerInfo *info = createPlayerInfo(name, date, numGenerations);
66
         boardInitialization(info);
67
         readPlayersInformation(info);
68
         free (name);
69
         free (date);
```