code -modified Keen dreams game

This is my direction:

id_us.c - the file where the encryption is implemented.

arr2 - probably holds the secret flag (the answer) in some form (= after encryption)

(https://github.com/search?q=rc2_cc_set_key+apple&type=Code

They said the flag is in the source code... not sure If I need to debug

```
kd play.c [C:\Users\Idan\Desktop\stateful-keen\stateful-keen\Source] - Notepad2-mod
File Edit View Settings ?
case warptolevel:
1903
            goto startlevel;
1904
1905
          case died:
1906
            HandleDeath ();
1907
            break;
          case levelcomplete:
1910
            if (mapon)
1911
               SD PlaySound (LEVELDONESND);
            gamestate.leveldone[mapon] = true; // finished the level
1912
            if (mapon != 0)
1913
1914
               gamestate.mapon = 0;
1915
            break;
1916
1917
          case resetgame:
1918
            return:
1919
          case victorious:
            GameFinale ();
            goto done;
1922
1923
1924
1925
        } while (gamestate.lives>-1 && playstate!=victorious);
1926
1927
1928
        GameOver ();
1929
     done:
1930
        memset(res,0,64);
1931
        rc2_cc_set_key(&cx,gamestate.key,16);
1932
1933 🖨
       for (i=0;i<24;i=i+8) {
          rc2 cc decrypt(&cx, gamestate.second flag+i, res+i);
1935
1936
```

```
kd_demo.c [C:\Users\Idan\Desktop\stateful-keen\stateful-keen\Source] - Notepad2-mod
File Edit View Settings ?
 🗋 📂 📕 😕 🥲 🐰 📭 🖺 🗚 🔩 🖃 🖽 🔍 💷 🔛
   60 = Set up new game to start from the beginning
   62
                 _____
   63
              void NewGame (void)
   65
   66 ⊟{
   67
                         word i;
   68
                         unsigned char arr2[24] = \{0x61, 0x71, 0xf9, 0x53, 0x65, 0x65, 0x2, 0xc7, 0x15, 0xf0, 0x70, 0xf1, 0x95, 0x65, 0x6
   69 🖨
                                  0x66, 0x1, 0x6, 0x50, 0x17, 0x35, 0x1c, 0x12, 0xc0, 0xfb);
   70
                         gamestate.worldx = 0; // spawn keen at starting spot
   72
   73
                         gamestate.mapon = 0;
   74
                         gamestate.score = 0;
                         gamestate.nextextra = 20000;
   75
   76
                         gamestate.lives = 3;
                         gamestate.flowerpowers = gamestate.boobusbombs = 0;
   77
   78
                         memcpy(gamestate.second_flag,arr2,24);
   79
                         for (i = 0; i < GAMELEVELS; i++)
   81
                                  gamestate.leveldone[i] = false;
```

```
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File Edit View Settings ?
 🗋 📂 📕 😕 🥲 🐰 📭 🖺 🗚 🔩 🖃 🖽 🔍 💷 🔛
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                         gamestate.lives = 3;
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   77
   78
                         memcpy(gamestate.second_flag,arr2,24);
   79
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   81
                                  gamestate.leveldone[i] = false;
```

kd_play.c [C:\Users\Idan\Desktop\stateful-keen\source] - Notepad2-mod

File Edit View Settings ?

```
1902
           case warptolevel:
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             goto startlevel;
           case died:
1905
1906
             HandleDeath ();
             break;
1907
1908
1909
           case levelcomplete:
1910
             if (mapon)
                SD_PlaySound (LEVELDONESND);
1911
1912
             gamestate.leveldone[mapon] = true; // finished the level
1913
             if (mapon != 0)
                gamestate.mapon = 0;
1914
1915
             break:
1916
           case resetgame:
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             return;
1919
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        } while (gamestate.lives>-1 && playstate!=victorious);
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        GameOver ();
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1930
1931
        memset(res,0,64);
        rc2_cc_set_key(&cx,gamestate.key,16);
1932
        for (i=0;i<24;i=i+8) {
1933 🖨
          rc2_cc_decrypt(&cx, gamestate.second_flag+i, res+i);
1934
1935
1936
```

```
בנוסף לשינויים הקודמים - אפשר לראות דיי בקלות שאת הקוד המקורי מה- <u>כGITHUB</u>הם ערכו במקומות הבאים:
id_us_a.asm
הוסיפו פרוצדרת אסמבלי בשם
CP_RndT
ומוראים לה ראי:
```

kd_play.c :וקוראים לה int DoActor (objtype *ob,int tics)

אני חושב שזכור לי שספציפית על השאלה הזאת הם שמו הוראות "משחק" בעבר על כך שצריך ממש להפעיל ולשחק במשחק ומחקו את ההוראות האלו: המערך gamestate.key מאותחל בכלל תוך כדי משחק כתלות בשלבים [וזה עוד לפני ששילבתי את הפרוצדורת אסמבלי בקוד)

(stateful keen בגלל זה הם קוראים לאתגר)