Com S 229 Spring 2015 Midterm Exam Answer Key

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1. (30 pts; 5 each)
   (a) I know what we're gonna do today.
   (b) Phineas and Ferb are building a roguelike game!!
   (c) Lindana
   (d) Segmentation fault
   (e) no output
   (f) Segmentation fault
2. (40 pts; 20 each)
   (a) char *strdup(const char *s)
         char *o;
         int i;
         if ((o = malloc(strlen(s) + 1))) {
           for (i = 0; s[i]; i++) {
              o[i] = s[i];
           o[i] = ' \ 0';
         return o;
       }
```

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(b) char *strchr(const char *s, int c)
      {
         while (*s && *s != c)
           s++;
         if (*s) {
           return (char *) s;
         } else {
           return NULL;
         }
      }
3. (30 pts; 3 each)
   (a) list_item_t * or struct list_item *
   (b) int32_t
   (c) int32_t *
   (d) list_item_t or struct list_item
   (e) list_item_t or struct list_item
   (f) int
   (g) list_item_t or struct list_item
   (h) void *
   (i) list_t or struct list
   (j) char
```

Extra Credit. (1 pt)

IOWA STATE!