```
1 char firstfour(char c) {
 2
       return c & 0b11110000;
 3 }
 1 char lastfour(char c) {
 2
       return c & 0b00001111;
 3 }
 1 char startswith1110(char c) {
 2
 3
 4
 5
 6 }
 1 #include <stdio.h>
 2 #include <string.h>
 4 void inspect(char s[]) {
       int index = 0;
 5
       printf("%s, length %ld: ", s, strlen(s));
 6
       while(s[index] != 0) {
           char current = s[index];
 8
 9
           printf("%c (%hhu 0b", current, current);
           for(int place = 128; place > 0; place /= 2) {
10
               if((current & place) == 0) printf("0");
11
12
               else printf("1");
13
           printf(") ");
14
           index += 1;
15
16
       printf("\n");
17
18 }
19
20 int main() {
21
       char input[100];
22
       fgets(input, 100, stdin);
23
       printf("\n");
24
       inspect(input);
25 }
```

```
$ gcc inspect.c -o inspect
$ ./inspect
José, length 5: J (74 0b01001010) o (111 0b01101111) s (115 0b01110011) v (195 0b11000011) v (169 0b10101001)
$ ./inspect
ピカチュウ
ピカチュウ length 15: v (227 0b11100011) v (131 0b10000011) v (148 0b10010100) // ... continues
$ ./inspect
※
, length 4: v (240 0b11110000) v (159 0b10011111) v (166 0b10100110) v (128 0b10000000)
```