```
Original string: sir sid easily teases sea sick sealsChanged string: sir sid Xasily tXasXs sXa sick sXals
D:\GoogleDrive\SchoolDocs\College\Fall 2016\CS252\swtichchar\switchchar.s
global subs.
subs:
  stmfd sp!, {v1-v6, lr}
  mov v1,a1 @copy pointer address will be overwritten
  mov v2,a2 @copy char we look for
  mov v3,a3 @copy char we replace with
  bl strlen
  add a1,a1,#1 @account for null byte
  mov v4,a1 @move the stringlength to a1
  bl malloc @allocate memory to make a new string
  mov v5,#0
loop:
  Idrb v6,[v1],#1
  cmp v6,v2
  streqb v3,[a1,v5]
  strneb v6,[a1,v5]
  add v5,v5,#1
  subs v4,v4,#1
  bne loop
  Idmfd sp!, {v1-v6, pc}
.end
D:\GoogleDrive\SchoolDocs\College\Fall 2016\CS252\swtichchar\switchchar.c
#include <stdlib.h>
#include <stdio.h>
extern char * subs( char *string, char this c, char that c );
int main(int argc, char *argv[] )
  char this c = 'e';
  char that_c = 'X';
  char orgstr[] = "sir sid easily teases sea sick seals" ;
  char * result;
  result = subs( orgstr, this_c, that_c );
  printf( "Original string: %s\n", orgstr );
  printf( "Changed string: %s\n", result );
  exit(0);
```