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```
-write C code to display sw on HEDR $ HEX 3-0
              int seq I ] = { 0x3F, 0x06, 0x5B, 0x4F, ..., 0x71}
                        Sw: 11 July 11th (317)
                                    Set IJ Set I I I
                        SegT [3]
                                  00000110 D1110001 1 HEX 3_0
0000 0000 0 /00/11/
             int main () {
                int values
               voltile in+ LEDR_ptr = 0x7720000;
               whatile int * Sw-ptr = 0x7F220040;
                                                                            Address. Dointers
               uslatile int * HEX3_O_Ft = 6xFF220020)
               while (1) f
                    value = * Sw_ptr; //read Sw
                    * FDR -ptr = value; // write LEDR
       * HEX3-0-ptr = Seg 7[ ratue & OXF] | Seg 7[ ratue > 4 & OXF] < 8
                                                                seg 7[ ralue >> 8] <- 16;
                                                          //write HEX3
              3
                        0000025c <main>:
                        25c: e3a01000 mov r1, #0
                         260: e34f1f20 movt r1, #0xff20
                                                // address of LEDR
                                                // address of seg?[] array
                        264: e3002730
                                 movw r2, #0x730
                        268: e3402000
                                 mout r2, #0
                                                               15 equir. to:
                        *
                        274: e7d2c443 | 1drb r12, (r2) r3, (asr #8) | 278: e203000f | and r0, r3, #15 | 1drb r0, (r2) r0] | 280: e180080c | orr r0, r0, r12, (1s1 #16
                                ubfx r3, r3, #4, #4
ldrb r3, (r2 r3)
orr r3, r9, r3, (1s1 #8)
                        284: e7e33253
                        288: e7d23003
                        28c: e1803403
                                               // write to HEX3_0
                                 str r3, [r1, #0x20]
                        294: eafffff4 b 26c (main+0x10)
```