

D.2 String Theory



Puzzle by: David McLeish
Difficulty: Hard

cisra Puzzle Competition 2008
<http://puzzle.cisra.com.au>

Your superior sleuthing skills cracked the code in the unusual card, but you're still not sure what it refers to. You need another lead. Wasting no more time, you make your way to the suspect's residence. You sit in your car outside his apartment for most of the night. Just before dawn, your patience is rewarded: your mark leaves via the front door, stops to tie his shoelaces, then begins walking towards the seaside.

Following on foot in the half-light, you almost lose him amongst the cluster of buildings near the aquarium and the ferry port, but eventually spy him again. He's facing a plaque mounted onto the wall of a sandstone building. The man presses various spots on the plaque and suddenly a small concealed door pops open. He vanishes inside in a wink before the brickwork closes, leaving no trace.

Racing up to the place where he had been standing, you see the plaque is a war memorial. Oddly, amongst the names of fallen soldiers stands a number of lines of embossed zeros and ones. In some places there are dots instead of numbers.

What did your suspect do to open the secret door? Applying pressure to the obvious points in the structure does nothing; the only way forward seems to lie in the strange pattern of zeros and ones.

```
00111011010111110001001010000.....11
000100101000111110.....0111011000001
.....0111010011011000001000111110010
01000110110.....01011100100111110100
00001011100011001001111101.....00000
0001101100111010100100.....111110001
00110100111.....01010111110010000011
001001101010000011101.....1111100010
```

