

# Hidden in the Cartridge

Running strings on space\_invaders.nes retrieves some suspicious strings.

```
$strings space_invaders.nes | grep '\$\$\$'
63$$$$74$$$$66$$$$7b$$$$39$$$$66$$$$31$$$$62$$$$34$$$$33$$$$38$$$$31
36$$$$34$$$$64$$$$62$$$$63$$$$38$$$$61$$$$36$$$$32$$$$34$$$$39$$$$62
61$$$$35$$$$63$$$$36$$$$36$$$$66$$$$63$$$$30$$$$64$$$$36$$$$31$$$$39
-p35$$$$62$$$$35$$$$33$$$$38$$$$38$$$$62$$$$65$$$$65$$$$64$$$$38$$$$39
30$$$$36$$$$38$$$$30$$$$62$$$$66$$$$36$$$$31$$$$36$$$$30$$$$32$$$$31
66$$$$32$$$$35$$$$38$$$$32$$$$32$$$$34$$$$38$$$$7d"<u
```

They look suspicious, like some hex delimited by \$ \$ \$.

And indeed this was the flag.

From Hex

Delimiter  
Auto

63\$\$\$\$74\$\$\$\$66\$\$\$\$7b\$\$\$\$39\$\$\$\$66\$\$\$\$31\$\$\$\$62\$\$\$\$34\$\$\$\$33\$\$\$\$38\$\$\$\$31  
36\$\$\$\$34\$\$\$\$64\$\$\$\$62\$\$\$\$63\$\$\$\$38\$\$\$\$61\$\$\$\$36\$\$\$\$32\$\$\$\$34\$\$\$\$39\$\$\$\$62  
61\$\$\$\$35\$\$\$\$63\$\$\$\$36\$\$\$\$36\$\$\$\$66\$\$\$\$63\$\$\$\$30\$\$\$\$64\$\$\$\$36\$\$\$\$31\$\$\$\$39  
-p35\$\$\$\$62\$\$\$\$35\$\$\$\$33\$\$\$\$38\$\$\$\$38\$\$\$\$62\$\$\$\$65\$\$\$\$65\$\$\$\$64\$\$\$\$38\$\$\$\$39  
30\$\$\$\$36\$\$\$\$38\$\$\$\$30\$\$\$\$62\$\$\$\$66\$\$\$\$36\$\$\$\$31\$\$\$\$36\$\$\$\$30\$\$\$\$32\$\$\$\$31  
66\$\$\$\$32\$\$\$\$35\$\$\$\$38\$\$\$\$32\$\$\$\$32\$\$\$\$34\$\$\$\$38\$\$\$\$7d"<u

hex 344 7

Output

{ctf{9f1b438164dbc8a6249ba5c66fc0d6195b5388beed890680bf616021f2582248}}