

The reducer is as follows:

```
func reducer(c):  
  Convert the first hexadecimal digit of c into a plaintext using  
  the following table:
```

hex	plaintext
0	♥♥♥♥
1	♥♥♥★
2	♥♥★♥
3	♥♥★★
4	♥★♥♥
5	♥★♥★
6	♥★★♥
7	♥★★★★
8	★♥♥♥
9	★♥♥★
A	★♥★★♥
B	★♥★★★★
C	★★♥♥
D	★★♥★
E	★★★★♥
F	★★★★★