

Oddball

Task file downloaded: oddball

```
$ file oddball
oddball: ASCII text
```

```
$ cat oddball
0000000 067531 020165 067165 067543 062566 062562 020144 064164
0000020 020145 062563 071143 072145 066440 071545 060563 062547
0000040 035440 005051 072516 061155 071145 020163 067151 071040
0000060 067141 062547 030040 033455 020077 066510 066555 020041
0000100 067510 020167 062157 005041 063012 060554 075547 060462
0000120 031065 061462 033062 034143 060467 031546 034461 061062
0000140 031064 031543 063064 031544 033062 034063 061065 005175
0000160
```

Original file

```
=====
0000000 067531 020165 067165 067543 062566 062562 020144 064164
0000020 020145 062563 071143 072145 066440 071545 060563 062547
0000040 035440 005051 072516 061155 071145 020163 067151 071040
0000060 067141 062547 030040 033455 020077 066510 066555 020041
0000100 067510 020167 062157 005041 063012 060554 075547 060462
0000120 031065 061462 033062 034143 060467 031546 034461 061062
0000140 031064 031543 063064 031544 033062 034063 061065 005175
0000160
=====
```

Searching real HEX chars ASCII codes, like 'flag{'

Wait! The numbers not bigger than 7... Hm, octal!?

Find octal to HEX converter:

<https://www.rapidtables.com/convert/number/octal-to-decimal.html>

Convert each blocks to HEX...

Goto cyberchef

Seems like readable characters, but without logical order

```
=====
0000000 6F59 2075 6E75 6F63 6576 6572 2064 6874
0000020 2065 6573 7263 7465 6D20 7365 6173 6567
0000040 3B20 0A29 754E 626D 7265 2073 6E69 7220
0000060 6E61 6567 3020 372D 203F 6D48 6D6D 2021
0000080 6F48 2077 646F 0A21 660A 616C 7B67 6132
0000100 3235 6332 3632 3863 6137 3366 3931 6232
0000120 3234 3363 6634 3364 3632 3833 6235 0A7D
=====
```

```
oY unuocever dht eesrctem seaseg;
)uNbmre snir naeg0 7- ?mHmm !oH wdo
!f
al{ga225c2628ca73f91b2243cf43d6283b5
}
=====
```

Manual repair with intuition:

flag{a225c2628ca73f91b2243cf43d6283b5}

Length&charset ok, but not acceptable in the dashboard.

Try change blocks halves in cyberchef...

6F59 → 596F

More readable!!

```
=====
0000000 596F 7520 756E 636F 7665 7265 6420 7468
0000020 6520 7365 6372 6574 206D 6573 7361 6765
0000040 203B 290A 4E75 6D62 6572 7320 696E 2072
0000060 616E 6765 2030 2D37 3F20 486D 6D6D 2120
0000080 486F 7720 6F64 210A 0A66 6C61 677B 3261
0000100 3532 3263 3236 6338 3761 6633 3139 3262
0000120 3432 6333 3466 6433 3236 3338 3562 7D0A
-----
```

You uncovered the secret message ;)
Numbers in range 0-7? Hmmm! How od!

```
flag{2a522c26c87af3192b42c34fd326385b}
=====
```

Flag was accepted.