Generalskills

2Warm

Author: Sanjay C/Danny Tunitis

Description

Can you convert the number 42 (base 10) to binary (base 2)?

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debug info: [u:880571 e: p: c:86 i:206]

Hints

Submit your answer in our competition's flag format. For example, if your answer was '11111', you would submit 'picoCTF{11111}' as the flag.

Let’s convert **42 (base 10)** to **binary (base 2)** step by step.

We repeatedly divide by 2 and note the remainders:

- 42÷2=2142 \div 2 = 2142÷2=21 remainder **0**
- 21÷2=1021 \div 2 = 1021÷2=10 remainder **1**
- 10÷2=510 \div 2 = 510÷2=5 remainder **0**
- 5÷2=25 \div 2 = 25÷2=2 remainder **1**
- 2÷2=12 \div 2 = 12÷2=1 remainder **0**
- 1÷2=01 \div 2 = 01÷2=0 remainder **1**

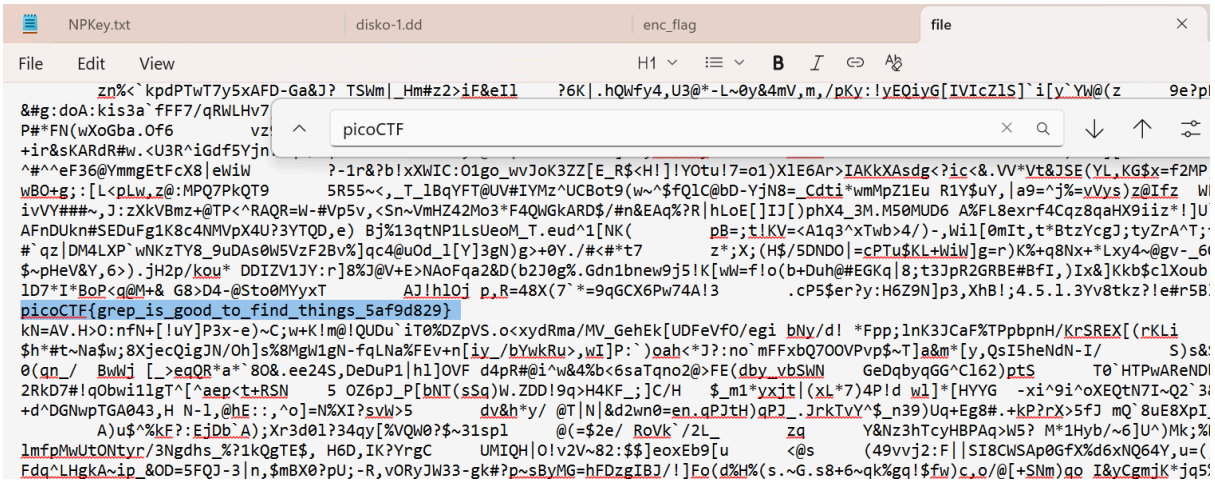
flag: picoCTF{101010}

First Grep

Author: Alex Fulton/Danny Tunitis

Description

Can you find the flag in file? This would be really tedious to look through manually, something tells me there is a better way.

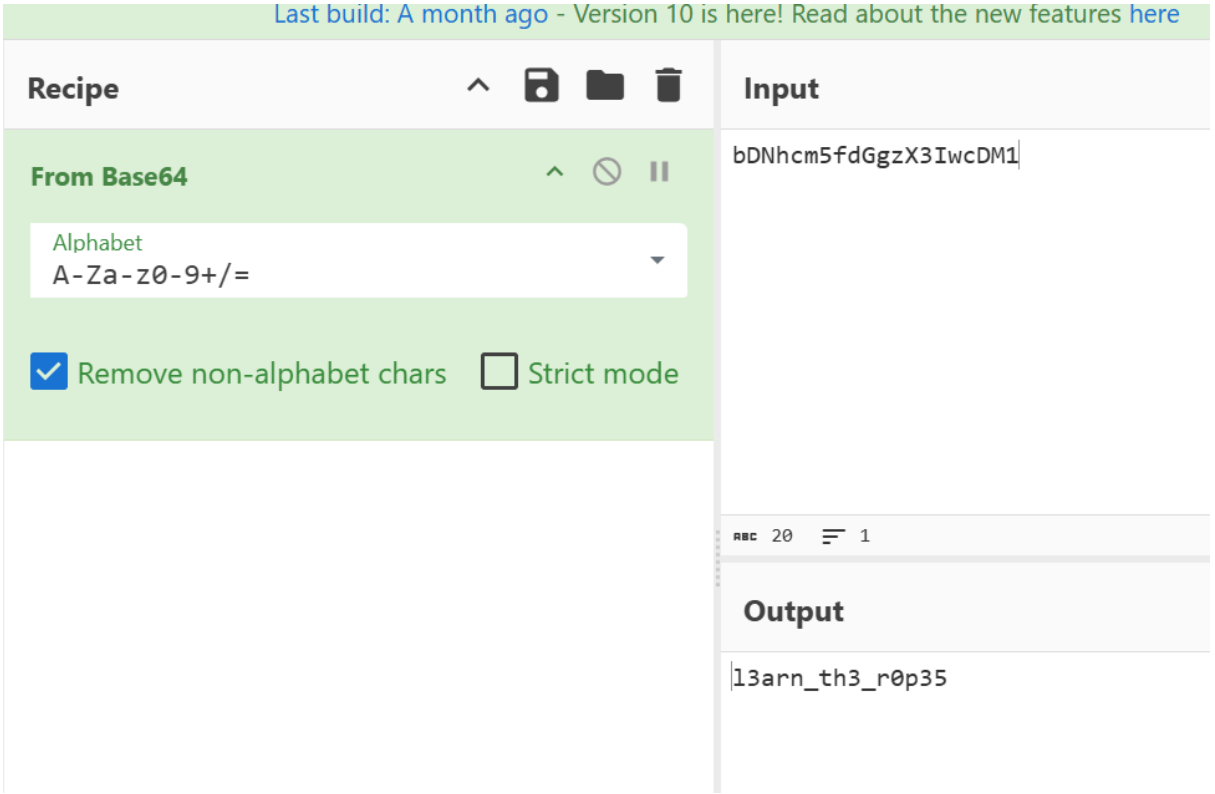


Bases

Author: Sanjay C/Danny T

Description

What does this `bDNhcm5fdGgzX3IwcDM1` mean? I think it has something to do with bases.



Warmed Up

Author: Sanjay C/Danny Tunitis

Description

What is 0x3D (base 16) in decimal (base 10)?

Let's convert **0x3D (hexadecimal)** to decimal:

- 3D16=(3×161)+(D×160)3D_{16} = (3 \times 16^1) + (D \times 16^0)3D16=(3×161)+(D×160)
- 3×16=483 \times 16 = 483×16=48
- D=13D = 13D=13
- 48+13=6148 + 13 = 6148+13=61

✅ So, **0x3D (base 16) = 61 (base 10)**

flag:picoCTF{61}

Lets Warm Up

Author: Sanjay C/Danny Tunitis

Description

If I told you a word started with 0x70 in hexadecimal, what would it start with in ASCII?

Let's solve this **step by step**.

1. **Given:** The word starts with `0x70` in hexadecimal.
   - `0x70` is a hex representation of a number.
2. **Convert hex to decimal:**
   - `0x70` → 7×16+0=1127 \times 16 + 0 = 1127×16+0=112 in decimal.
3. **Convert decimal to ASCII:**
   - ASCII code `112` corresponds to the character `'p'`.

✅ **Answer:** The word would start with `p` in ASCII.

so the flag : picoCTF{p}