Form **DG1**	**Flag Verification** (For use by qualified individuals competing in online, point-based computer-hacking competitions.)	Dice No. 1337
DiceGang LLC Meme Division	▶ **Submit recovered flag for points.** ▶ **Go to ctf.dicega.ng for instructions and the latest information.**	**2022**

Attachment Sequence No. **42**

| **Part I** | **General Information** |

<table>
<tr>
<td rowspan="3">**Type or Print**</td>
<td>**1 Name** (as shown on your bash prompt)</td>
</tr>
<tr>
<td>**2 Team Name** (must match registered team name on ctf.dicega.ng; disregard if not different from above)</td>
</tr>
<tr>
<td>**3 Flag** (must be valid)</td>
</tr>
</table>

a	b		c
dice{			**}**

| **Part II** | **Flag Verification** |

Step 1 Initial Checks	**Column A**

4 Does line 3b consists entirely of characters mapping to ASCII codepoints 32 to 127 (inclusive)?

☐ **Yes**
☐ **No**

5 If you entered "yes" for question 4, enter 1. Otherwise, enter 0.	**5**	
6 Number of individual characters in 3b (disregarding entries 3a and 3c).	**6**	
7 Multiply line 5 and line 6.	**7**	
8 (do not modify)	**8**	64

9 Is line 7 equal to line 8?

☐ **Yes** Continue to Step 2.
☐ **No** Stop. This flag is invalid.

Step 2 Splitting		**Column A**
10 Enter the first half of line 3b.	**10**	
11 Enter the second half of line 3b.	**11**	

Step 2 Splitting		Column A
12 Enter the first half of line 10.	12	
13 Enter the second half of line 10.	13	
14 Enter the first half of line 11.	14	
15 Enter the second half of line 11.	15	

Step 3 Precheck		Column A
16 Compute the sha256 hash of line 12 as a hex digest.	16	

17 Is line 16 equal to
c22645a78b8fb69322aa9ec64f9b07e5511bebd8607c1ca9329127eac125f69e?

☐ **Yes** Continue to line 18.
☐ **No** Stop. This flag is invalid.

18 Compute the sha256 hash of line 13 as a hex digest.	18	

19 Is line 18 equal to
4b63c6049b1db271a050595ae6403a57be699ab4e4a285b36aa7e88dceea2ff9?

☐ **Yes** Continue to line 20.
☐ **No** Stop. This flag is invalid.

20 Compute the sha256 hash of line 14 as a hex digest.	20	

21 Is line 20 equal to
443e74baf5711ac27461e7a363a877b32021902a22b37bb6558c1323c9c92b73?

☐ **Yes** Continue to line 22.
☐ **No** Stop. This flag is invalid.

22 Compute the sha256 hash of line 15 as a hex digest.	22	

23 Is line 22 equal to
b560939f06730bddaa649e1fb4cd241695dea937f7ff2331760a2a6a7ba977c1?

☐ **Yes** Continue to Step 4.
☐ **No** Stop. This flag is invalid.

Step 4 Verification		Column A
24 Complete form "Xenial Obsidian Router" (DG4-A) using line 12 as "Field A". Enter the result (DG4-A, line 127) here.	24	

Step 4 Verification		Column A
25 Complete form "Petal Robot Nemo Gladiator" (DG4-B) using line 13 as "Field A". Enter the result (DG4-B, line 732) here.	**25**	
26 Complete form "Circular Andromeda" (DG4-C) using line 14 as "Field A". Enter the result (DG4-C, line 75) here.	**26**	
27 Complete form "Visual Motion" (DG4-D) using line 15 as "Field A". Enter the result (DG4-D, line 705) here.	**27**	
28 Add lines 24 through 27.	**28**	
29 (do not modify)	**29**	4

30 Is line 29 equal to line 28?

☐ **Yes** Continue to Part III.
☐ **No** Stop. This flag is invalid.

Part III	**Certification**

Under penalty of perjury, I certify that:

1. The flag provided on this form is complete and correct in its entirety.
2. I am a registered CTF player in accordance with DiceGang LLC terms of service.
3. My team name does not describe the quality of a primary or secondary color.*
4. Neither my team nor I have been publicly shamed on Twitter for flag hoarding.

* for example: "absolute red", "super green", "nice yellow"

Sign Here	Signature of CTF player ▶	Date ▶