**ASSUMPTION UNIVERSITY**

**Vincent Mary School of Science and Technology**

Department of Computer Science

CS3201

# Algorithm Design

Term Project Report

Submit to

Asst Prof.Dr. Thitipong Tanpraset

By

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# Problem :

- 1219. Symbolic Sequence
- Time limit: 1.0 second
  Memory limit: 64 MB
- **Problem Author:** Pavel Atnashev, Leonid Volkov, text by Pavel Atnashev
  **Problem Source:** The Seventh Ural State University collegiate programming contest

# Explanation

- Every letter occurs not more than 40 000 times in the sequence
- Every possible subsequence with two letters length occurs not more than 2 000 times
- Every possible subsequence with three letters length occurs not more than 100 times

# INPUT

- For this problem no input is provided.

# Output

- In a single line of the output write some sequence, which satisfies the properties described above.

# Code

```
from random import choice
from string import ascii_lowercase
lis=list(ascii_lowercase)

print ''.join(choice(lis) for _ in xrange(1000000))
```

# Verdict

| ID | Date | Author | Problem | Language | Judgement result | Test # | Execution time | Memory used |
|---|---|---|---|---|---|---|---|---|
| 8656998 | 01:33:30<br>28 Nov 2019 | taranjeet Singh | 1219. Symbolic Sequence | Python 2.7 | Accepted | | 0.78 | 8 740 KB |
| 8656996 | 01:33:19<br>28 Nov 2019 | taranjeet Singh | 1219. Symbolic Sequence | Python 2.7 | Accepted | | 0.826 | 8 740 KB |
| 8656995 | 01:33:05<br>28 Nov 2019 | taranjeet Singh | 1219. Symbolic Sequence | Python 2.7 | Accepted | | 0.795 | 8 744 KB |
| 8656994 | 01:32:54<br>28 Nov 2019 | taranjeet Singh | 1219. Symbolic Sequence | Python 2.7 | Accepted | | 0.795 | 8 744 KB |
| 8656924 | 00:37:48<br>28 Nov 2019 | taranjeet Singh | 1219. Symbolic Sequence | Python 2.7 | Accepted | | 0.982 | 8 744 KB |

# References


- https://stackoverflow.com/questions/16308989/fastest-method-to-generate-big-random-string-with-lower-latin-letters