



First Challenge for Hash Agile Internship/Freshers Drive

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First Challenge for Hash Agile Internship/Freshers Drive

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Recruitment <recruitment@hashagile.com>

to Recruitment

Wed, Oct 2, 10:55 AM (1 day ago)

Dear Candidate,

We are pleased to inform you that your first programming challenge is attached to this email. Please carefully read the problem statement and submit your solution.

Instructions:

- Deadline: You must solve the attached program in Ruby Language and submit your code via the provided Google Form link by 12:00 PM today.
- Submission Form: <https://forms.gle/4xuGnsgdvHyjzozZA>
- Important: Submissions received after the deadline will be given lower priority in the selection process.

Guidelines:

- Ensure that your solution is original and does not use built-in functions (as specified in the problem statement). We will be using tools like [ZeroGPT](#) to check for plagiarism and any content generated by AI.
- Please attach a PDF document that includes:
  - The problem statement given
  - The program code you have written

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3:36 PM 10/3/2024

HATFD1030.pdf

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**HATFD1030**

**Rotate an Array Right by K Positions**

Write a program to rotate an array right by  $k$  positions without using any built-in array or rotation functions. For example, rotating  $[1, 2, 3, 4, 5]$  by 2 would give  $[4, 5, 1, 2, 3]$ .

**Instructions:** You should implement the logic manually for rotating the array.

Page 1 / 1

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Remarks

```
def reverse(arr, start, end):  
    while start < end:  
        arr[start], arr[end] = arr[end], arr[start]  
        start += 1  
        end -= 1  
  
def rotate_array(arr, k):  
    n = len(arr)  
    k = k % n  
  
    reverse(arr, 0, n - 1)  
    reverse(arr, 0, k - 1)  
    reverse(arr, k, n - 1)  
  
arr = [1, 2, 3, 4, 5]  
k = 2  
rotate_array(arr, k)  
print(arr)
```

hat-python-1.py - C:\Users\Santhosh\AppData\Local\Programs\Python\Python312\hat-python-1.py (3.12.0)

File Edit Format Run Options Window Help

```
def reverse(arr,
while start <
    arr[start]
    start +=
    end -= 1

def rotate_array
    n = len(arr)
    k = k % n

    reverse(arr,
    reverse(arr,
    reverse(arr,

arr = [1, 2, 3,
k = 2
rotate_array(arr,
print(arr)
```

IDLE Shell 3.12.0

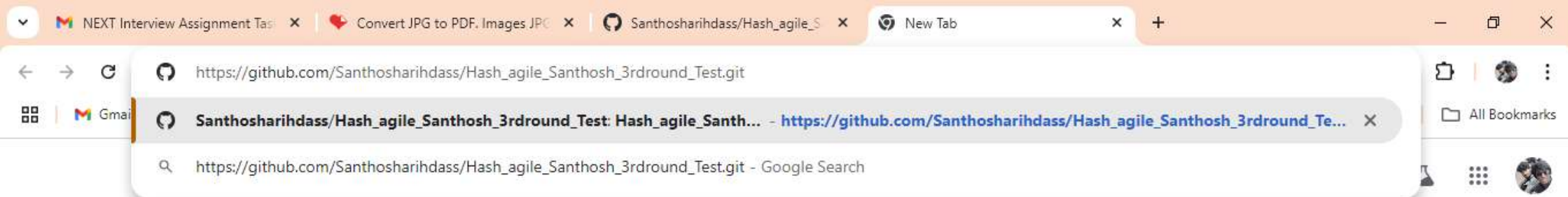
File Edit Shell Debug Options Window Help

Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.

= RESTART: C:\Users\Santhosh\AppData\Local\Programs\Python\Python312\hat-python-1.py  
[4, 5, 1, 2, 3]

Ln: 1 Col: 0





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## Hash\_agile\_Santhosh\_3rdround\_Test Public

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Code

Santhosharihdass	Rename python_test to final_day_assignment_hat
2ndassignment_query_employees.py	2ndday assignment_c
final_day_assignment_hat	Rename python_tes
python2nd_project_index_employees.py	Rename index_emp

Local Codespaces

Clone

HTTPS SSH GitHub CLI

https://github.com/Santhosharihdass/Hash\_agile

Clone using the web URL

Open with GitHub Desktop

Download ZIP

### About

Hash\_agile\_Santhosh\_3rdround\_Test

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### Releases

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### Packages

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### README

Add a README



```
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# wget https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-8.15.2-linux-x86_64.tar.gz
--2024-10-02 19:59:03-- https://artifacts.elastic.co/downloads/elasticsearch/elasticsearch-8.15.2-linux-x86_64.tar.gz
Resolving artifacts.elastic.co (artifacts.elastic.co)... 34.120.127.130, 2600:1901:0:1d7::
Connecting to artifacts.elastic.co (artifacts.elastic.co)|34.120.127.130|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 608376206 (580M) [application/x-gzip]
Saving to: 'elasticsearch-8.15.2-linux-x86_64.tar.gz'

elasticsearch-8.15.2-linux-x86_64.tar.gz      100%[=====>] 580.19M  2.79MB/s   in 3m 37s

2024-10-02 20:02:42 (2.67 MB/s) - 'elasticsearch-8.15.2-linux-x86_64.tar.gz' saved [608376206/608376206]

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin#
```

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# ll

```
total 1189044
drwxr-xr-x  2 elasticsearch elasticsearch    4096 Oct  2 19:59 ./
drwxr-xr-x 10 elasticsearch elasticsearch    4096 Oct  2 18:32 ../
-rw-rw-r--  1 elasticsearch elasticsearch    1575 Oct  2 19:31 create_index.py
-rwxr-xr-x  1 elasticsearch elasticsearch     101 Sep 19 10:05 elasticsearch*
-rw-r--r--  1 root          root          608376206 Sep 26 08:13 elasticsearch-8.15.2-linux-x86_64.tar.gz
-rw-r--r--  1 root          root          605777526 Aug 17 2023 elasticsearch-8.9.1-amd64.deb
-rwxr-xr-x  1 elasticsearch elasticsearch     376 Sep 19 10:09 elasticsearch-certgen*
-rwxr-xr-x  1 elasticsearch elasticsearch     376 Sep 19 10:09 elasticsearch-certutil*
-rwxr-xr-x  1 elasticsearch elasticsearch     674 Sep 19 10:05 elasticsearch-cli*
-rwxr-xr-x  1 elasticsearch elasticsearch    353 Sep 19 10:09 elasticsearch-create-enrollment-token*
-rwxr-xr-x  1 elasticsearch elasticsearch    352 Sep 19 10:09 elasticsearch-croneval*
-rwxr-xr-x  1 elasticsearch elasticsearch   2371 Sep 19 10:05 elasticsearch-env*
-rwxr-xr-x  1 elasticsearch elasticsearch   2595 Sep 19 10:05 elasticsearch-env-from-file*
-rwxr-xr-x  1 elasticsearch elasticsearch     84 Sep 19 10:05 elasticsearch-geoip*
-rwxr-xr-x  1 elasticsearch elasticsearch     87 Sep 19 10:05 elasticsearch-keystore*
-rwxr-xr-x  1 elasticsearch elasticsearch     55 Sep 19 10:05 elasticsearch-node*
-rwxr-xr-x  1 elasticsearch elasticsearch    172 Sep 19 10:05 elasticsearch-plugin*
-rwxr-xr-x  1 elasticsearch elasticsearch    376 Sep 19 10:09 elasticsearch-reconfigure-node*
-rwxr-xr-x  1 elasticsearch elasticsearch    353 Sep 19 10:09 elasticsearch-reset-password*
-rwxr-xr-x  1 elasticsearch elasticsearch    353 Sep 19 10:09 elasticsearch-saml-metadata*
-rwxr-xr-x  1 elasticsearch elasticsearch    353 Sep 19 10:09 elasticsearch-service-tokens*
-rwxr-xr-x  1 elasticsearch elasticsearch    353 Sep 19 10:09 elasticsearch-setup-passwords*
-rwxr-xr-x  1 elasticsearch elasticsearch     55 Sep 19 10:05 elasticsearch-shard*
-rwxr-xr-x  1 elasticsearch elasticsearch    403 Sep 19 10:09 elasticsearch-sql-cli*
-rwxr-xr-x  1 elasticsearch elasticsearch   3311097 Sep 19 10:09 elasticsearch-sql-cli-8.15.2.jar*
-rwxr-xr-x  1 elasticsearch elasticsearch    353 Sep 19 10:09 elasticsearch-syskeygen*
-rwxr-xr-x  1 elasticsearch elasticsearch    353 Sep 19 10:09 elasticsearch-users*
-rw-r--r--  1 root          root          1202 Oct  2 19:22 elasticsearch.log
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# vi elasticsearch.py
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# vi employee_index.py
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# curl -X GET "localhost:9200/employees/_count"
{"count":102,"_shards":{"total":1,"successful":1,"skipped":0,"failed":0}}root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin#
```

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin

```
import pandas as pd
```

```
df = pd.read_csv('/home/ubuntu/Employee Sample Data 1.csv', encoding='latin1')
```

```
for i, row in df.iterrows():  
    doc = row.to_dict()  
    es.index(index='employees', body=doc)
```

"employee\_index.py" 8L, 197B

5,1

A11

Windows taskbar showing search bar, task view, file explorer, chrome, vscode, powershell, whatsapp, and telegram icons. System tray shows 30°C Sunny, network, and volume icons. Date and time: 1:36 AM 10/3/2024.

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin

```
from elasticsearch import Elasticsearch  
  
es = Elasticsearch([{'scheme': 'http', 'host': 'localhost', 'port': 9200}])  
  
if not es.indices.exists(index='employees'):  
    es.indices.create(index='employees')
```

— INSERT —

1,1

A11

Windows taskbar showing search bar, task view, file explorer, chrome, vscode, powershell, whatsapp, file explorer, telegram, system tray with weather (30°C Sunny), network, volume, and date/time (1:37 AM 10/3/2024).

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# curl -X GET "localhost:9200/employees/\_count"

{"count":102,"\_shards":{"total":1,"successful":1,"skipped":0,"failed":0}}root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin#



Type here to search



30°C Sunny



1:38 AM  
10/3/2024





—  

```
> curl -X GET "localhost:9200/^C
```

```
root@ip-172-31-1-210:/home/ubuntu/elasticsearch-8.15.2/bin# curl -X GET "localhost:9200/employees/_search?pretty"
```

**Figure 1**

—  

Downloaded from <http://ajph.org/> on November 10, 2015

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin

```
Error indexing document 1232: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1233: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1234: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1235: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1236: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1237: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1238: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1239: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1240: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1241: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1242: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1244: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1245: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1246: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1247: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1248: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1249: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1250: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1252: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1253: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1254: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1255: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1256: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1257: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1258: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1259: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
Error indexing document 1261: BadRequestError(400, 'mapper_parsing_exception', 'failed to parse')
```

Employee data indexed successfully.

```
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# curl -X GET "localhost:9200/
> _AC
```

```
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# curl -X GET "localhost:9200
```

```
> curl -X GET "localhost:9200/_AC
```

```
root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin# curl -X GET "localhost:9200/"
```

```
{
  "name" : "ip-172-31-1-210",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "vyFzVN0mS12vmZz_RmySJw",
  "version" : {
    "number" : "7.17.24",
    "build_flavor" : "default",
    "build_type" : "deb",
    "build_hash" : "fcf25fff740db6ab3ed5d145c58d70e4c3528ea7",
    "build_date" : "2024-09-05T07:34:51.812485320Z",
    "build_snapshot" : false,
    "lucene_version" : "8.11.3",
    "minimum_wire_compatibility_version" : "6.8.0",
    "minimum_index_compatibility_version" : "6.0.0-beta1"
  },
  "tagline" : "You Know, for Search"
}
```

root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin

```
{
  "_index" : "employees",
  "_type" : "_doc",
  "_id" : "fuu3TpIBRyCxVVEbsUCS",
  "_score" : 1.0,
  "_source" : {
    "Employee ID" : "E02163",
    "Full Name" : "Sarah Johnson",
    "Job Title" : "Director",
    "Department" : "Engineering",
    "Business Unit" : "Research & Development",
    "Gender" : "Female",
    "Ethnicity" : "Caucasian",
    "Age" : 31.0,
    "Hire Date" : "3/6/2018",
    "Annual Salary" : "$150,653 ",
    "Bonus %" : "24%",
    "Country" : "United States",
    "City" : "Austin",
    "Exit Date" : "9/1/2019"
  }
}
```

root@ip-172-31-1-210:/home/ubuntu/elasticsearch-8.15.2/bin# telnet http://localhost:9200

Command 'telnet' not found, did you mean:

command 'tntnet' from deb tntnet (3.0-3)

command 'telnet' from deb inetutils-telnet (2:2.4-3ubuntu1)

command 'telnet' from deb telnet-ssl (0.17.41+really0.17-4)

Try: apt install <deb name>

root@ip-172-31-1-210:/home/ubuntu/elasticsearch-8.15.2/bin# curl -X GET "localhost:9200/"

```
{
  "name" : "ip-172-31-1-210",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "vyFzVN0mS12vmZz_RmySjw",
  "version" : {
    "number" : "7.17.24",
    "build_flavor" : "default",
    "build_type" : "deb",
    "build_hash" : "fcf25fff740db6ab3ed5d145c58d70e4c3528ea7",
    "build_date" : "2024-09-05T07:34:51.812485320Z",
    "build_snapshot" : false,
    "lucene_version" : "8.11.3",
    "minimum_wire_compatibility_version" : "6.8.0",
    "minimum_index_compatibility_version" : "6.0.0-beta1"
  },
  "tagline" : "You Know, for Search"
}
```

root@ip-172-31-1-210:/home/ubuntu/elasticsearch-8.15.2/bin#



root@ip-172-31-1-210: /home/ubuntu/elasticsearch-8.15.2/bin/elasticsearch-indexer

root@ip-172-31-1-210:/home/ubuntu/elasticsearch-8.15.2/bin/elasticsearch-indexer# curl -X GET "localhost:9200/"

```
{
  "name" : "ip-172-31-1-210",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "vyFzVN0mS12vmZz_RmyS3w",
  "version" : {
    "number" : "7.17.24",
    "build_flavor" : "default",
    "build_type" : "deb",
    "build_hash" : "fcf25fff740db6ab3ed5d145c58d70e4c3528ea7",
    "build_date" : "2024-09-05T07:34:51.812485320Z",
    "build_snapshot" : false,
    "lucene_version" : "8.11.3",
    "minimum_wire_compatibility_version" : "6.8.0",
    "minimum_index_compatibility_version" : "6.0.0-beta1"
  },
  "tagline" : "You Know, for Search"
}
```

root@ip-172-31-1-210:/home/ubuntu/elasticsearch-8.15.2/bin/elasticsearch-indexer# |