

Task 1

Read a stream of Strings, fetch the words which can be converted to numbers. Filter out the rows, where the sum of numbers in that line is odd.

Provide the sum of all the remaining numbers in that batch.

Netcat : C:\netcat-1.11

```
C:\Administrator: C:\Windows\System32\cmd.exe - nc64.exe -l -p 9999
Microsoft Windows [Version 6.1.7601]
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C:\Windows\system32>cd \

C:\>C:\netcat-1.11
'C:\netcat-1.11' is not recognized as an internal or external command,
operable program or batch file.

C:\>cd C:\netcat-1.11
C:\netcat-1.11>nc64.exe -l -p 9999
```

```
/Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/bin/java ...
objc[43302]: Class JavaLaunchHelper is implemented in both /Library/Java/JavaVirtualMachines/jdk1.8.0_144.jdk/Contents/Home/bin/java (0x103d274c0) and /Library/Java
hey Scala
Using Spark's default log4j profile: org/apache/spark/log4j-defaults.properties
18/05/26 20:21:13 INFO SparkContext: Running Spark version 2.1.0
18/05/26 20:21:14 WARN NativeCodeLoader: Unable to load native-hadoop library for your platform... using builtin-java classes where applicable
18/05/26 20:21:14 INFO SecurityManager: Changing view acls to: syed
18/05/26 20:21:14 INFO SecurityManager: Changing modify acls to: syed
18/05/26 20:21:14 INFO SecurityManager: Changing view acls groups to:
18/05/26 20:21:14 INFO SecurityManager: Changing modify acls groups to:
18/05/26 20:21:14 INFO SecurityManager: SecurityManager: authentication disabled; ui acls disabled; users with view permissions: Set(syed); groups with view perm
18/05/26 20:21:16 INFO Utils: Successfully started service 'sparkDriver' on port 57719.
18/05/26 20:21:16 INFO SparkEnv: Registering MapOutputTracker
18/05/26 20:21:16 INFO SparkEnv: Registering BlockManagerMaster
18/05/26 20:21:16 INFO BlockManagerMasterEndpoint: Using org.apache.spark.storage.DefaultTopologyMapper for getting topology information
18/05/26 20:21:16 INFO BlockManagerMasterEndpoint: BlockManagerMasterEndpoint up
18/05/26 20:21:16 INFO DiskBlockManager: Created local directory at /private/var/folders/gw/3hqdg8pd2f93n33pr7j7lcz00000gn/T/blockmgr-2fd82098-8fbb-4566-ab5d-346da
18/05/26 20:21:16 INFO MemoryStore: MemoryStore started with capacity 2004.6 MB
18/05/26 20:21:16 INFO SparkEnv: Registering OutputCommitCoordinator
18/05/26 20:21:16 INFO Utils: Successfully started service 'SparkUI' on port 4040.
18/05/26 20:21:16 INFO SparkUI: Bound SparkUI to 0.0.0.0, and started at http://192.168.31.71:4040
18/05/26 20:21:17 INFO Executor: Starting executor ID driver on host localhost
18/05/26 20:21:17 INFO Utils: Successfully started service 'org.apache.spark.network.netty.NettyBlockTransferService' on port 57720.
18/05/26 20:21:17 INFO NettyBlockTransferService: Server created on 192.168.31.71:57720
18/05/26 20:21:17 INFO BlockManager: Using org.apache.spark.storage.RandomBlockReplicationPolicy for block replication policy
18/05/26 20:21:17 INFO BlockManagerMaster: Registering BlockManager BlockManagerId(driver, 192.168.31.71, 57720, None)
18/05/26 20:21:17 INFO BlockManagerMasterEndpoint: Registering block manager 192.168.31.71:57720 with 2004.6 MB RAM, BlockManagerId(driver, 192.168.31.71, 57720, N
18/05/26 20:21:17 INFO BlockManagerMaster: Registered BlockManager BlockManagerId(driver, 192.168.31.71, 57720, None)
18/05/26 20:21:17 INFO BlockManager: Initialized BlockManager: BlockManagerId(driver, 192.168.31.71, 57720, None)
Spark Context Created
Spark Streaming Context Created
```

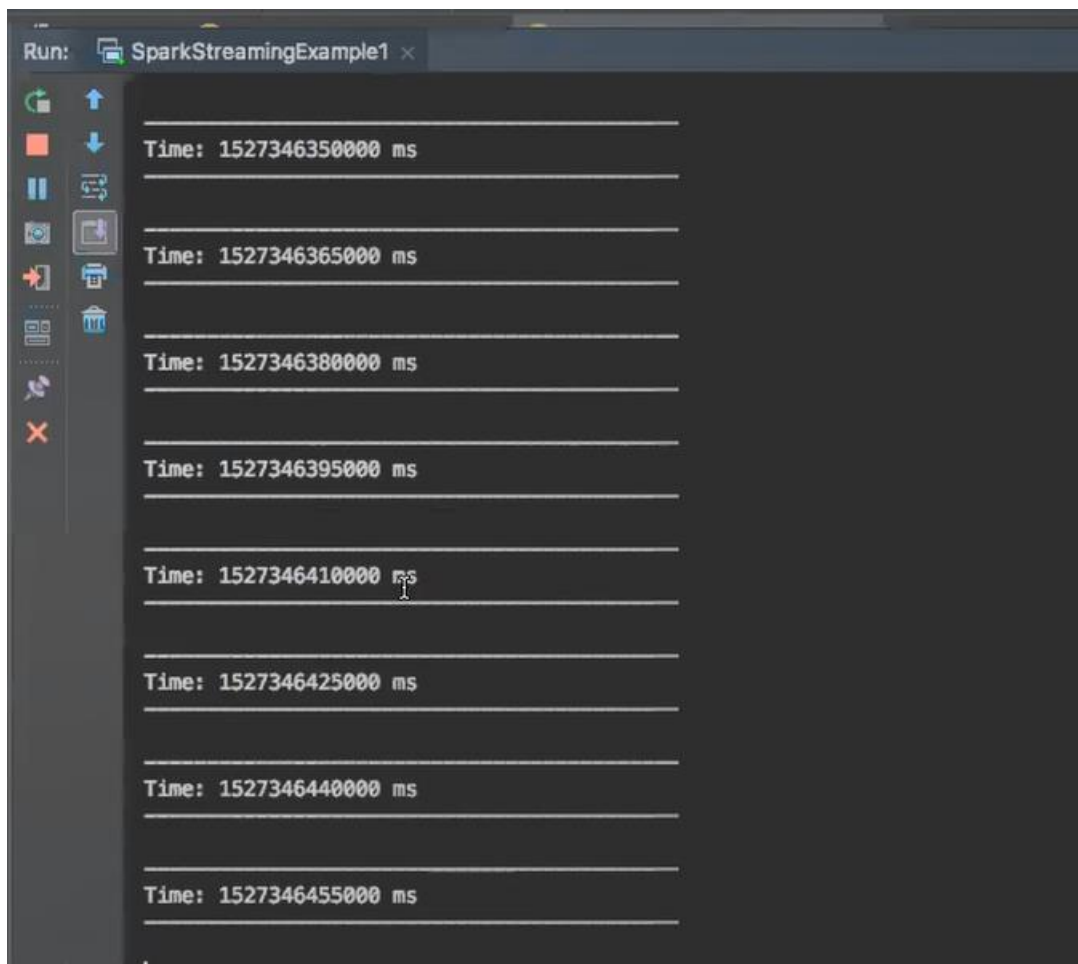
```
[acadgild@localhost ~]$ nc -lk 9999

hello guys guys
```

```
Spark Streaming Context Created
Time: 1527346290000 ms

18/05/26 20:21:39 WARN RandomBlockReplicationPolicy: Expecting 1 replicas with only 0 peer/s.
18/05/26 20:21:39 WARN BlockManager: Block input-0-1527346299200 replicated to only 0 peer(s) instead of 1 peers

Time: 1527346305000 ms
[guys,2]
(hello,1)
```



Another Message:

```
C:\netcat-1.11>nc64.exe -l -p 9999
This is streamig example

18/05/26 20:26:48 WARN BlockManager: Block input-0-1527346608400
18/05/26 20:26:49 WARN RandomBlockReplicationPolicy: Expecting 1
18/05/26 20:26:49 WARN BlockManager: Block input-0-1527346609400
-----
Time: 1527346620000 ms
-----
(,2)
(example,1)
(is,1)
(This,1)
(streamig,1)
```