

Programming Assignment Testing

More Network Traces

We will release two more traces for you to test your implementation:

- `packet-trace-2.csv` : ~5.2 M packets
- `packet-trace-3.csv` : ~1M packets

Edit to count_min.py

```
def add_item(self, packet_flow, packet_len):
    """ Update sketch for the current packet in stream

    Args:
        packet_flow : Tuple of (Source_IP, Destination_IP, Source_Port, Destination_Port, Protocol)
        packet_len: Integer value of packet length
    """

    """ YOUR CODE HERE
    TODO: Implement the sketch update algorithm
    """

    assert (sizeof(sizeof(self.sketch)+sizeof(sizeof(self.auxiliary_storage)))/(1024**2) < 1, "Sketch Size is not less than 1 Megab
```



Statement slowing down the code. **Can be removed.**

Heavy Hitters - Modification

- The flow size for heavy hitters should be considered in terms of the number of packets in the flow.
- **Not** the cumulative packet length as stated in the earlier assignment document.
- The shared test cases consider the heavy hitters in terms of the number of packets.

Guidelines

- ✓ Feel free to use all of the allocated 1 Megabyte space for sketch.
- ✓ Do note we **can** test for larger traces:
 - Sketches are expected to be robust to larger traces
 - *Some* degradation in accuracy expected
- ✓ Releasing new `test.py` to test against a “par” baseline.

New test.py

- Allows you to test your code against a ``par'' baseline
- Usage:
`python test.py <trace-name>`
- We share our baseline error bounds in constants.py.

NOTE:

- Test cases are provided to ensure basic correctness.
- Should not be considered as sole determinant of sketch quality.