## **GNU** Radio History: Example

Let's say that <u>history()</u> is 3. The block reads in the following items from the upstream buffer:



The scheduler allows the data input buffer to be processed piecewise in a series of calls to the work function. Let's say the first 3 work calls give noutput items values of 10, 8 and 10, respectively.



## GNU Radio History: Example



Setting history to n increases the number of items available to the work function in any given work call by n-1. This is done by giving n-1 zerovalue items at the beginning of the first work call.

## History of length n means:

- The n-1 items beyond noutput\_items can be processed in the work call
- Block latency of n-1 of items
- Tags can be set in the first noutput\_items giving the appearance of tagging backward in time