Assignment 6

Stream Algorithms

O Given stream longth = 75

Cycles will respect from, to 10

: 1 to 5 vapoats 8 times.

:. Surprise number = 5×82 + 5×72 = 565

From AMS approach,

The same is the starge if the value timestamp and be in the starge if the value will be used to the common surprise number will be near to the common surprise number

(a) {4,31,72}

Median = 675

(b) $\{25, 34, 47\}$ Modian = 34

$$34 \rightarrow 75 \times (2(5)-1) = 675$$

(c) {9,50,68}

Kedian = 50

$$50 \rightarrow 75 \times (2(3)-1) = 375$$

(d) {2, 45, 72 }

Median = 45

The Time of them is considered.

Scanned by CamScanner

the given externate in 4

. 4:22 => only extract 2 zeroes doubt be

prosent from sight side upto the

first 1.

!. All the vorus ascept 4 and 5 can be considered

$$\begin{cases} 2,6,7,0 \end{cases} = 1+0+1+2 = 4$$

$$\begin{cases} 2,5,7,0 \end{cases} = 1+4+1+2 = 8$$

$$\begin{cases} 2,3,6,9 \end{cases} = 1+0+0+0 = 1$$

$$\begin{cases} 2,3,6,9 \end{cases} = 1+0+0+0 = 5$$

According to the problem,

each received stored 100 hyter

: we can store = 10'0 = 10'8 to records

Sample of data occupies 100 bytes

Pick in subset of usoke and called 100 bytes

viacords of length 100 bytes.

Bucket number = 0 to 999999

No of comails generated by single uses = 108 = 108

When is amaile were sours,

Each vocard = 100 lastar =
$$\frac{10^{10}}{100} = 10^{8}$$

If the threashold to the presitions pursue salested in

(5) According to the problems

S -> 23 mambare :- d = 23

Bit array longth = 100 , t= 100

Harb purctions = 1

Finalian of
$$0'$$
 = C = C