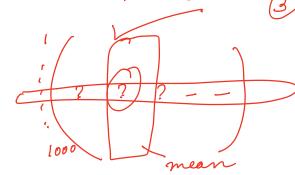


(ACTGACCTGG) - ML) (fi f2...fn)

- DATA CLEANING:

missing values

- 1. Ignore the tuple
- 2. Fill in the mixing values manually.
- 3. Use a global constant to fill in mixing talues.
- 4. Vie a measure of central tendency of attribute (mean medien



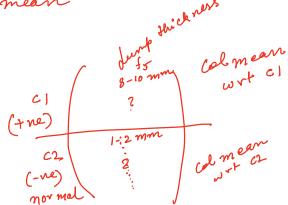
Binl

- 5. Use alteribute mean)
 median for all samples
 belonging to same dass-
- 6. Vie the most probable value to fill in invising



Smooth smooth smooth bins by bins by bounder median bounder

- (2) Regnession
- (3) clustering



< 4,8,15,21,21,24,25,28,34> -> Partition into equal prequency buckets. Bin1: < 4 & 15) Bin 2 < 21 21 24y Bin3 (25 28 y By boundaries: check min & man for a bin and reliefly the boundaries. Each bin value is then suplaced by closest boundary value. Bin 1 (4 4 13) Bin 2 (21 21 24) Bin 3 (25 25, 34) By mean: Each value is replaced by mean Bin 1 < 9 9 9 > Bin 2 <22 22 22 Bin 3 <29 29 29 By median: Bin < 4 4 4 4 > Bin 2 < 21 21 22> Bin 3 < 25 25 25