

HW 7

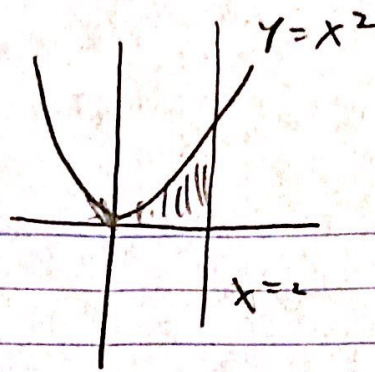
1. a)

elect	pence	plural	plunk
votes	plank	pence	caucus
biden	plural	elect	biden
harris	biden	biden	elect
trump	trump	votes	major
pence	major	harris	polls
caucus	votes	polls	pollot
plural	harris	trump	pence
major	caucus	plunk	plural
plants	polls	major	harris
ballot	elect	ballot	vote
polls	ballot	caucus	trump

ballot	biden	pollot	major
biden	elect	harris	pence
caucus	major	caucus	biden
elect	pence	biden	plank
harris	plank	elect	elect
major	polls	major	ballot
pence	trump	plural	polls
plank	votes	pence	votes
plural	caucus	plank	harris
polls	harris	polls	trump
trump	pollot	trump	caucus
votes	plural	votes	plural

2) Nancy Pelosi is the majority party speaker in the House of Representative which is a plurality of the people's will.

2. a)



For Any points in the shaded area,
we can sort them based on their x-axis
value, if x are same, then smaller value
will be listed first in the list

Bucket Array:

0	1
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 /

0.0	0.1	0.2	...	1.1	...
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Size - n array to match x-axis
then use sort and comparison
based on their y-value

b) Given an array of tuples $(x_i, y_i) \rightarrow xarr$
new array of size n $\rightarrow arr$

for ($i=0, i < xarr.length; i++$)

Find position $arr[i]$'s value in ar

$pos = \text{find}(arr, xarr[i])$ // bucket position

if ($arr[pos].length > 1$) {

insertion sort where to put $xarr[i]$ }

else {

$arr[pos] = xarr[i]$

}

}