



Hunt Institute for Botanical Documentation
5th Floor, Hunt Library
Carnegie Mellon University
4909 Frew Street
Pittsburgh, PA 15213-3890
Telephone: 412-268-2434
Email: huntinst@andrew.cmu.edu
Web site: www.huntbotanical.org

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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

Three letter words

~~any of the 26 letters, but I believe it is~~
~~any of the 26~~

$$x \cdot y \cdot z = 26^3$$

$$\begin{array}{r} 676 \\ 26 \\ \hline 4056 \\ 1352 \\ \hline 17576 \\ \hline 8000 \\ \hline 9576 \checkmark \end{array}$$

no vowels $20 \cdot 20 \cdot 20 = 8000$

one vowel position 1 $v \cdot x \cdot y$
 $6 \cdot 20 \cdot 20$

2

3

$$\begin{array}{l} 2400 \\ 2400 \\ 2400 \end{array} \left. \vphantom{\begin{array}{l} 2400 \\ 2400 \\ 2400 \end{array}} \right\} 7200$$

2 vowels $v_1 v_2 x$

$v_1 x v_2$

$x v_1 v_2$

$$\begin{array}{l} 720 \\ 720 \\ 720 \end{array}$$

3

$v_1 v_2 v_3$

all vowels

$$\begin{array}{r} 216 \\ \hline 9576 \checkmark \end{array}$$

$$\begin{array}{r} 17576 \\ 26 \\ \hline 105476 \\ 35152 \\ \hline 1405996 \end{array}$$

aaa

aae

aa i

aa o

aa u

aa y

aea

aee

a e i

a e o

a e u

iey

aia

aie

a i i

a i o

a i u

aiy

aoa

a o r

ao i

ao o

ao u

ao y

aua

au e

au i

au o

au u

au y

aya

→ ay e

ay i

ay o

ay u

ay y

Language puzzles

I told you last night that you weren't
old but that I am

all
honest
friendly

I told you last night that you weren't
freezing but that I was

I told you last night that you weren't
willing, but that I } am.
was.

the gutter gets deeper

How many ways
(no questions)
(and, sometimes,
the two)

the gutter gets the deeper

Do they all
mean the same?

the gutter deeper gets

(as written words -
without context)

the deeper gets

(as spoken words,
where intonation
is inescapable)

deeper gets the gutter

the deeper gets the gutter

deeper the gutter gets

the deeper the gutter gets

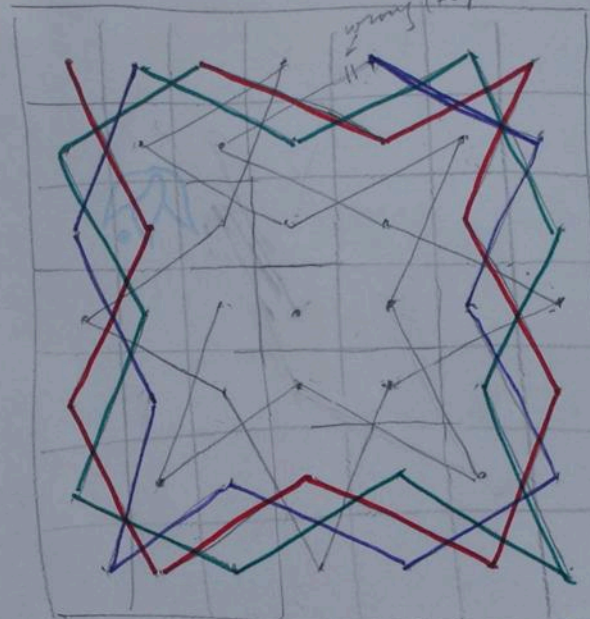
If there are
different meanings
what are these,
& when would each
be appropriate?

Etc.

[Knight's move - folder]

7x7 all but center!

wrong (to get to center)

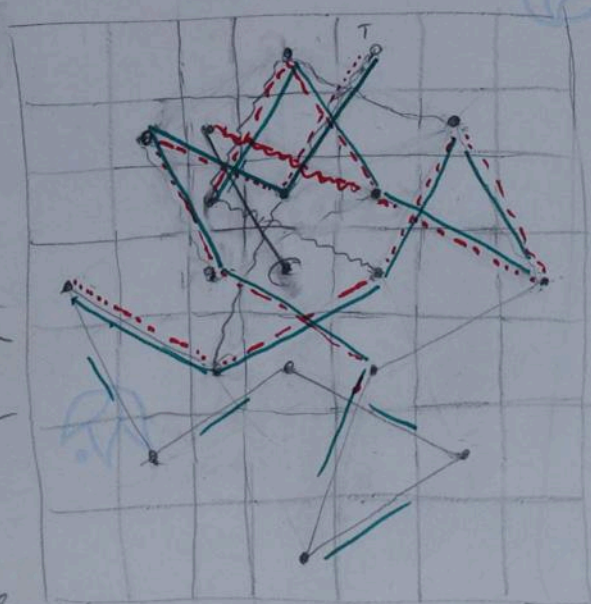


r	10
g	11
b	9

see below for an open ended path.

after gp
→

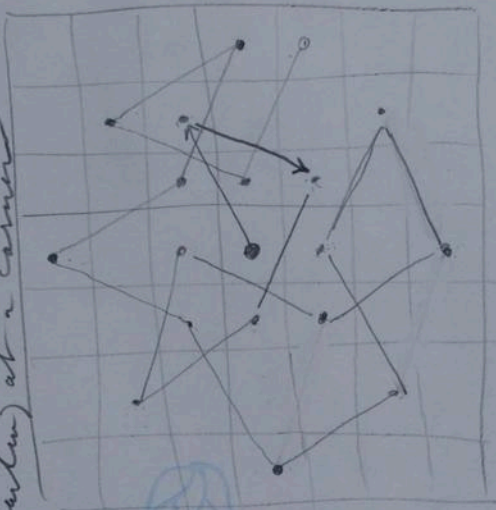
only one path from center (C) outwards
 then only one path in from T
 as last one in green leaves a gap



path solved

each arm hit a corner constraint
 As center is the unique terminus
 (start) at a corner

7x7

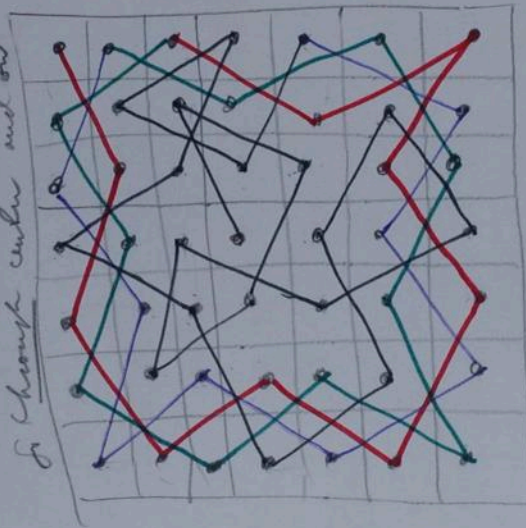


after purple (p)

the two arrows
 from center
 are determined

the second one
 determines
 path from
 end of purple.

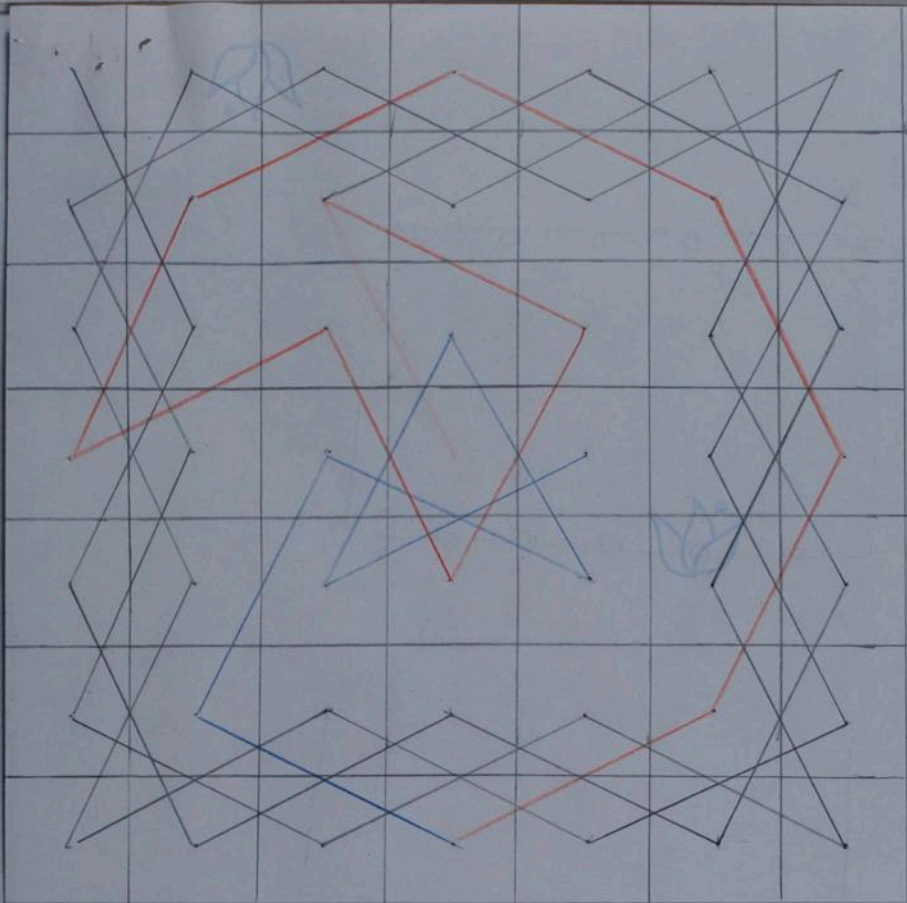
Because of the corner
 constraint, beginning at
 upper left at once defines a
 closed path, which must
 go through center and on



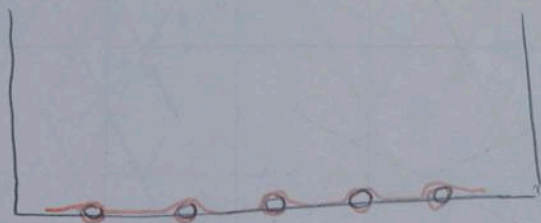
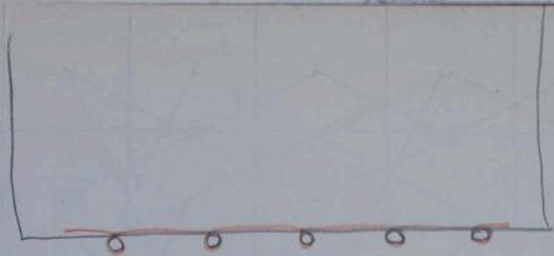
There is an
 open passage
 in!
 6/21/75

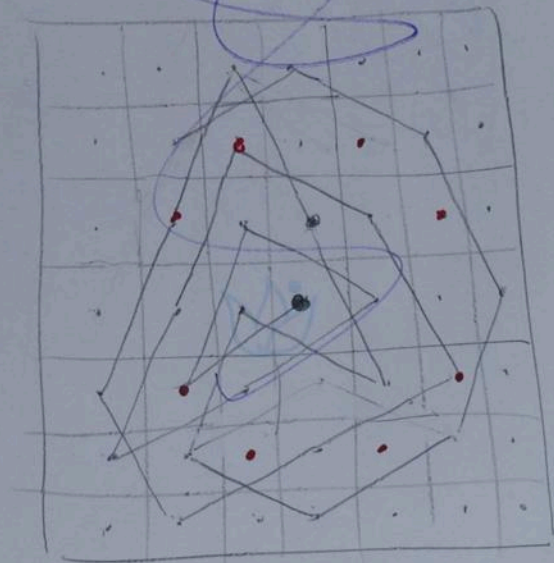
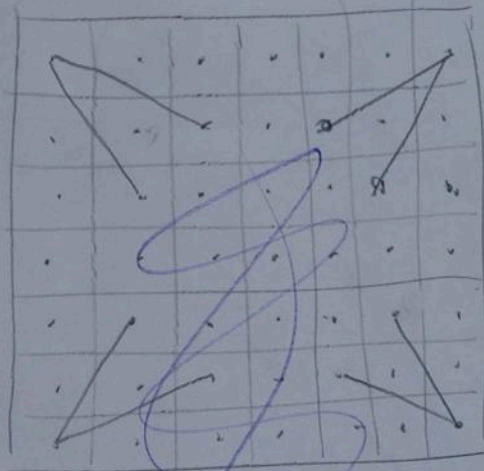
There is no closed
 path. Any path
 has one terminus
 as center and
 consequently one
 corner as the
 other. Omitting

In $5^2, 6^2, 7^2$ the approach was corner, coming around closed path.
 in outer two rows. All these other ways

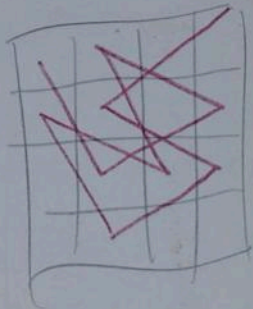
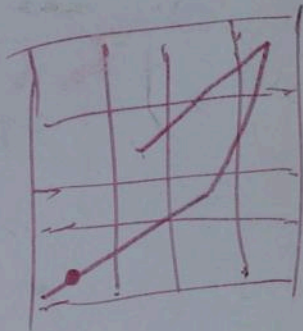
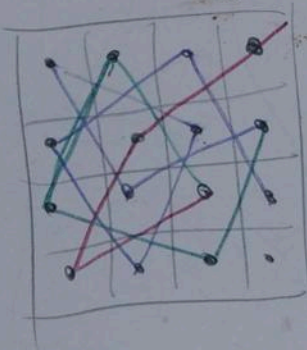
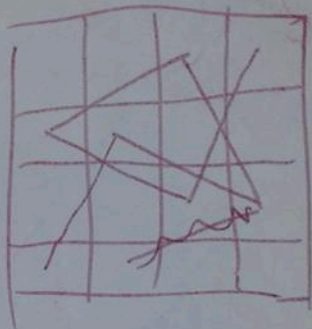
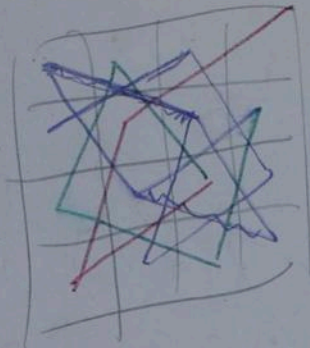


7x7  mistles center





4x4



5. Recreational facilities will be subjected to moderately greater demands, although on-site project facilities will contain this demand to insignificant increases. The project itself, having a resident population, will provide little extra to non-residents seeking recreational experiences.
6. Public facilities and services would have to be provided in all cases--water, sewer, public protection, education--to the site and to the people living on it. Major financial investments (private and public) would have to be made to accommodate the project. It is doubtful that additional costs for education and police protection would be borne directly by residents, although an on-site fire protection system, with equipment, could be paid for by them.
7. No serious environmental constraints appear to affect the site, given the current state of knowledge about the area.

Chief impacts on the Subarea will be the modification of the historic pattern of development and the increased demands for urban-scale services in the area. Approval of the project will result in a new residential node far up the valley, but it will also result in an attractive living environment for residents, and perhaps an enhanced tax base and local service economy. Service demands can be financed in large part by residents, but the public will be called upon to finance some of them--particularly those "indirect" costs such as highway improvements down the valley or school improvements over the years.

CONCLUSION

The fundamental question raised by the applicant's proposal is one of precedent. The approval of the project would surely generate similar proposals across the County. The costs and benefits of the project must be measured in relation to this. A second question germane particularly to the McKenzie Valley is, what point of development will permanently modify the character of the valley? At this time several proposals, some amounting to many hundreds of dwelling units, are being discussed for the valley--which one will finally bring the "saturation point" when its impact is added to those which have gone before?

The Planning Commission will have to decide on these questions not just in the context of a particular site review but in the context of major policy direction toward the future of the County. The Draft General Plan, as has been discussed, provides one set of policy and land use directions; the Commission will have to decide whether to follow those directions or to modify them.

If the demands of the 3 ranked centers are met otherwise: there is no choice but to invade one of these 4 closed paths, to

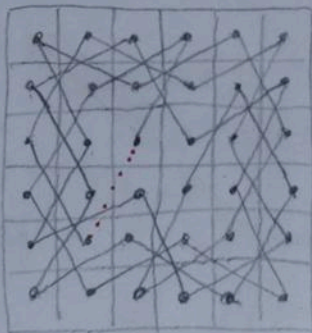


ruin the symmetry, and to abandon any relation.

There is no solution for 4×4 .

Is there one for 5×5 ? Yes, an open one I made in 1942 for TIME magazine, but I cannot make it solve the puzzle now (1971)

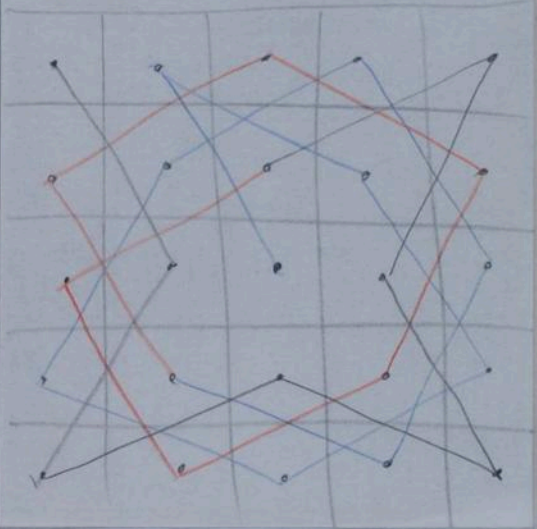
There is a closed path for 6×6 .



A rose by any other name would smell as sweet.

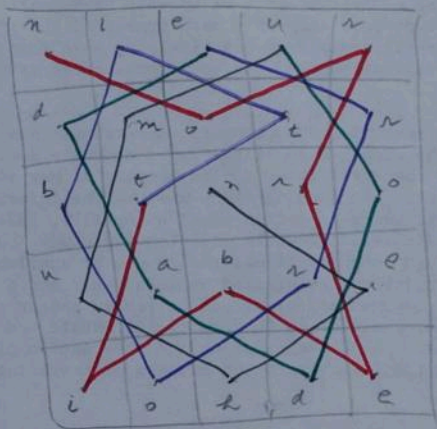
5x5

A

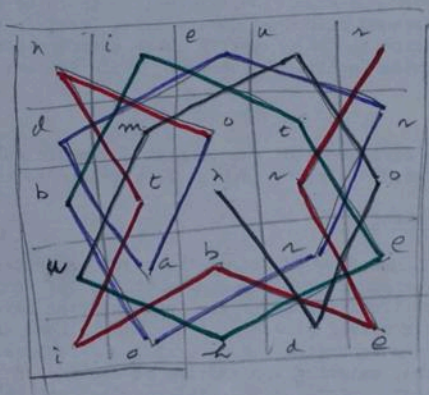


N	I	E	U	R
D	M	O	T	R
B	T	N	R	O
U	A	B	R	E
I	O	H	D	E

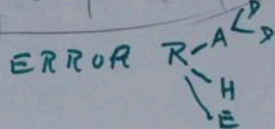
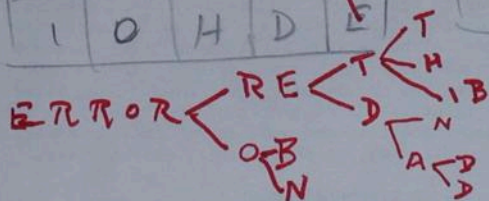
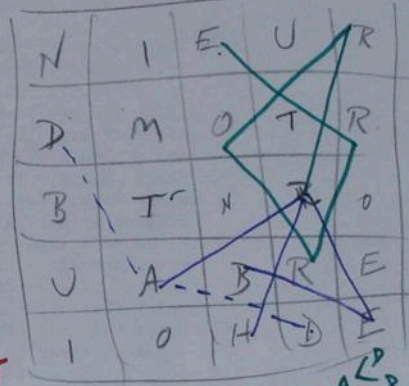
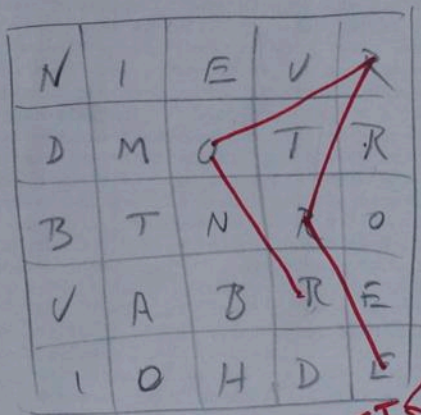
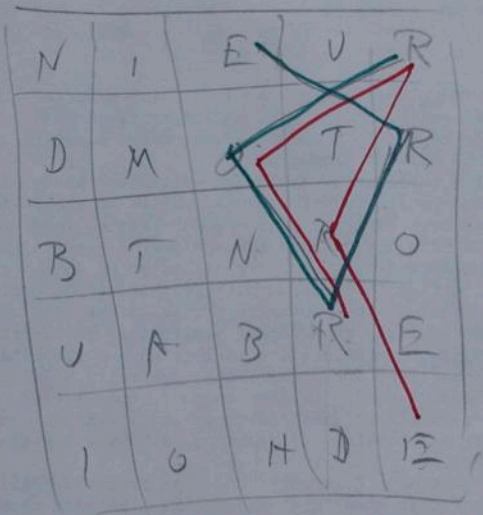
C

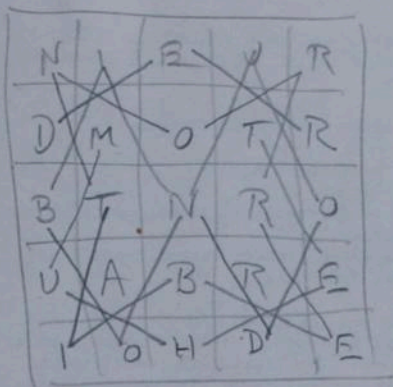


D



I think C+D give the same letter sequences





→	A	1
	B	2
	D	2
→	E	3
	H	1
→	I	2
	M	1
	N	2
→	O	3
	R	4
	T	2
→	U	2
<hr style="width: 10%; margin-left: 0;"/>		<hr style="width: 10%; margin-left: 0;"/>
	11 vowels	25
		14 cons.

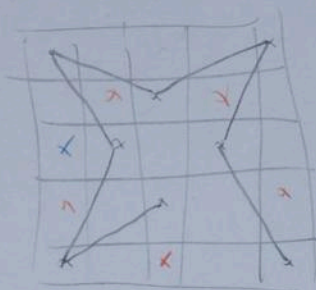
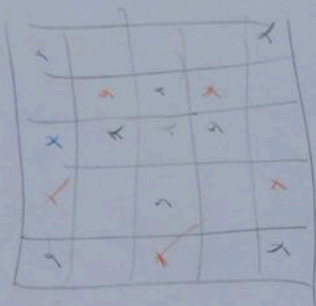
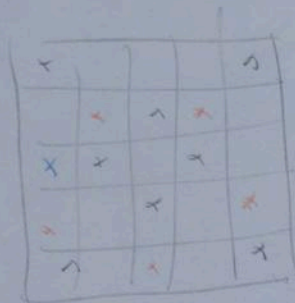
Cons: 2B, 2D, 1H, 1M, 2N, 4R, 2T

no r r e b e t

1700 x 400 x 200

136,000,000

rtiberrobora
ed adoumulet



errab on

11:15 / 21

1	14	9	20	3
24	19	2	15	10
13	8	23	4	21
18	25	6	11	16
7	12	17	22	5

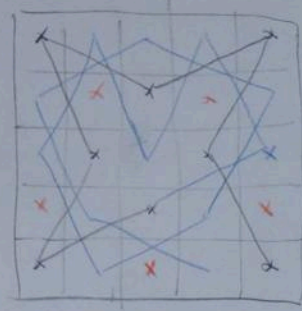
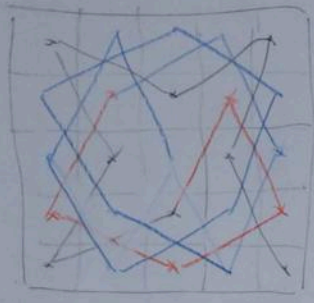
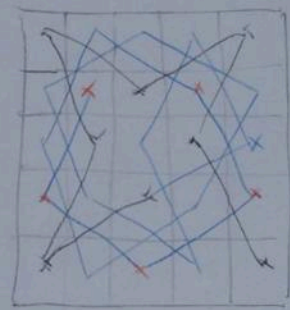
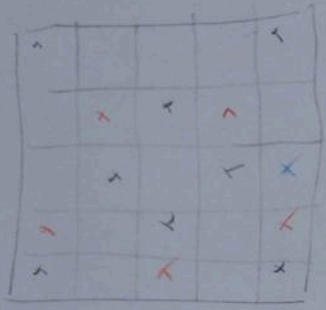
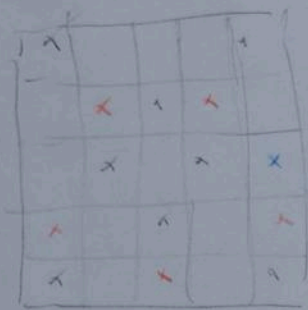
nonrebiterrnobitehumuodnda

the
ntiherno
nonrebit

aderr

muoda

tehum
nobit



1	24	13	18	7	63
14	19	8	25	12	78
9	2	23	6	17	57
20	15	4	11	22	72
3	10	21	16	5	55

44 70 full 69 76 63

9	2	13	18	7
14	19	8	23	12
3	10	1	6	17
20	15	4	11	22
X	0	21	16	5

locks 1

	5	10	15	
11	1		4	9
6		16		14
2	12		8	4
	7	3	13	

9	16	7	4	11
	1	10	15	6
17	8	5	12	3
10	12	2	19	14
1	18	13		13

29	24	13	18	7	91
14	19	8	25	12	78
9	28	23	6	17	83
20	15	26	11	22	94
27	10	21	16	5	79

99 96 91 76 63

N	I	E	O	R
D	M	O	T	R
B	T	N	R	O
U	A	B	R	E
I	O	H	D	E

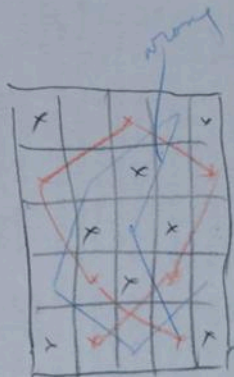
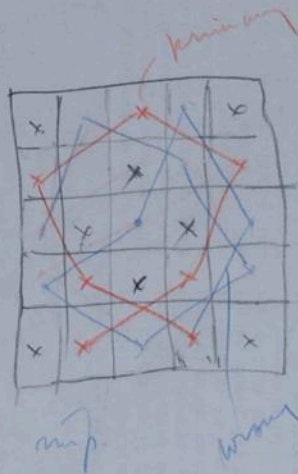
	5	10	15	
11	16		4	9
6	1			14
17	12		8	3
	7	2	13	

1	20	9	14	3
10	15	X	19	24
21	X	23	X	13
16	11	X	2	18
7	22	17	12	5

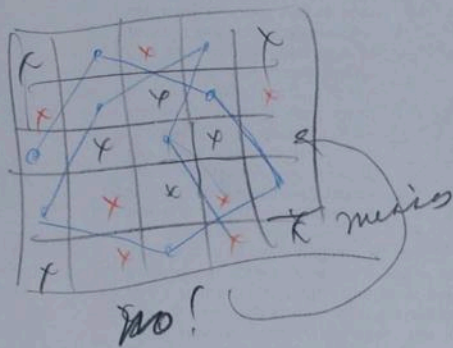
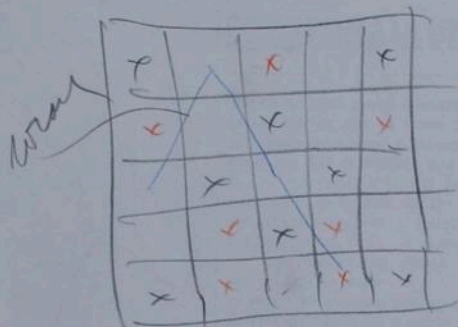
The corners can be filled
only by using the 4 x's
in 4 out

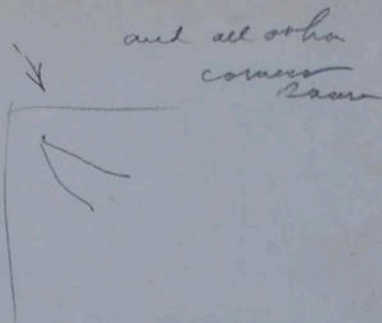
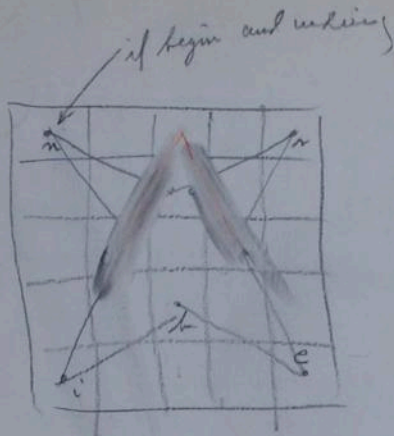
no r r e h i t e d a d s u m u l e t i o n r r

r r n o h i t e h u m n o d a d e t i b e r r o n

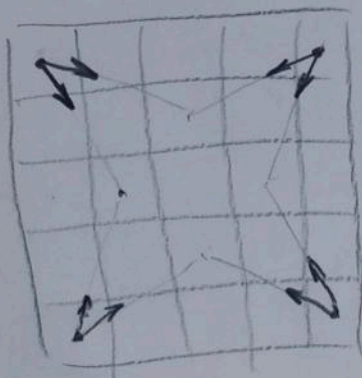


non ret t
 tiber non





no r n e bit n or n e bit
t i b e n r o m t i b e r r o n



no or t
be er on

1 A D^2
 O^2
 R^3
 D^5

A must occur as $x Ay$ where
 x and y are 2 of D, D^5, O^2, R^3 .

3 E' D^2
 T^3
 R^3
 R^2

B, D, H, N, R, T

3 of these 7 letters must
be joined to an E

E'' H^5
 N^3
 T^2

E''' B^4
 R^3

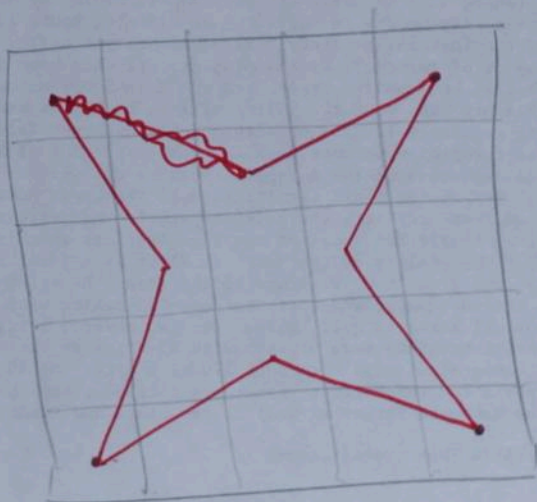
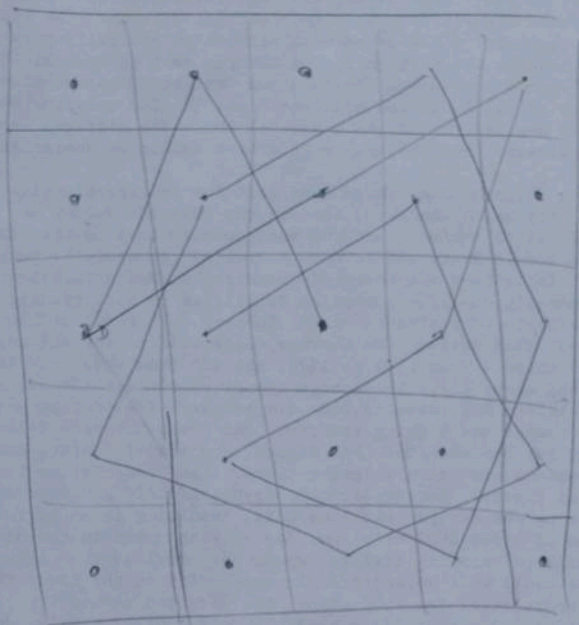
2 I' B^3
 N^3
 T^2

B, N, T (5)

2 of these 5 letters
must be joined to
an I

I'' T^3
 B^4

N	I	E	V	R
D	M	O	T	R
B	T	N	R	O
V	A	B	R	E
I	O	H	D	E



5x5

* A can occur only in
~~is in a word that word has one~~
these sequences

D^2AD^5 D^2AO^2 , D^2AR^3

D^5AD^2 O^2AD^2 R^3AD^2

D^5AO^2 D^5AR^3

O^2AD^5 R^3AD^5

O^2AR^3

R^3AO^2

A can occur only in these sequences

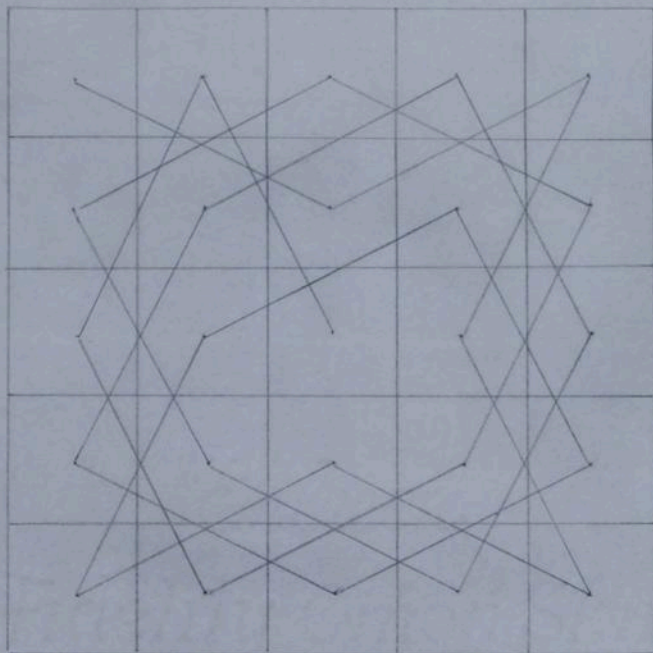
BIN, BIT, NIT

NIB, TIB, TIN

In fact I is in either $T^3I^rB^4$
or $B^4I^rT^3$

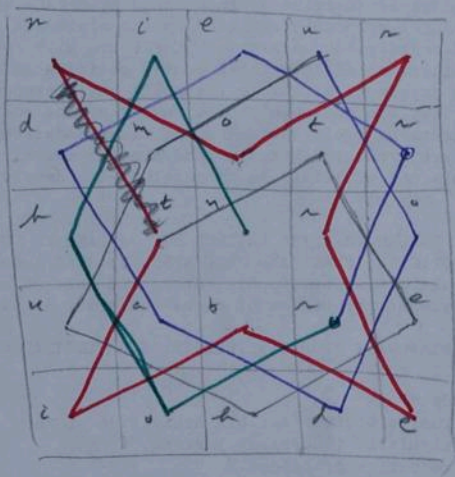
125

B



- I. NORREBITTEHUMUODADERROBIN
- I'. RONTIBERMUHETIBORREDDADOUN
- II. RREBITNOROBITEHUMUODADERN
- II'. ERRONTIBTIBORORREDDADOUUMHEN
- III. EBITNORRADERRROBITEHUMUODN
- III'. IBERRONTREDDADOUUMHETIBON
- IV. ITNORREB MUODADERROBITEHUN
- IV'. NTIBERRADOUUMHETIBORREDN

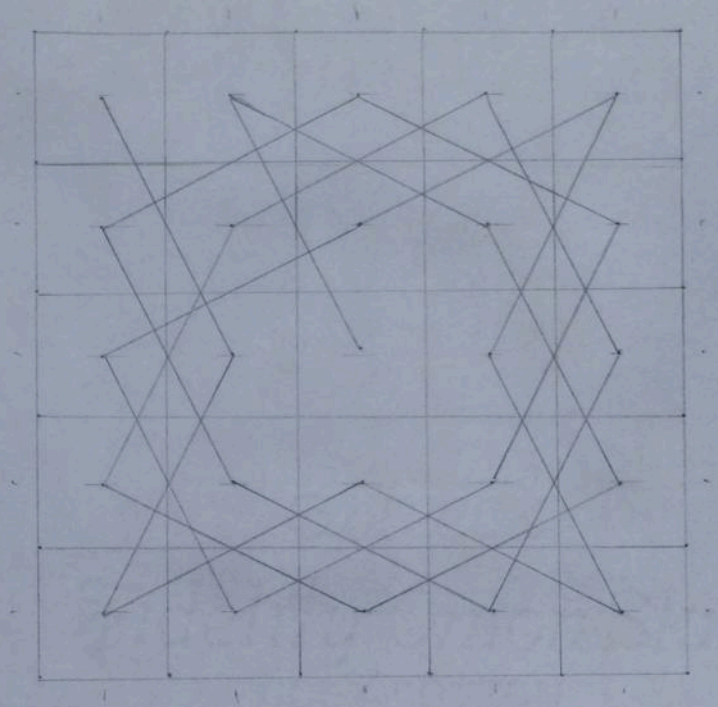
5X1
B



1. Any path must involve all corners of which one must be open.
2. Any path must pass through the center, unless the center is a terminus.

nonrebitnte humnoda de n n o b e r

A



A

I (N T I B E R R O
 N I T E H U M U
 R R E B I T N O
 N U M U H E T I

II (R O N T I B E R
 N R R O B I T E
 E B I T N O R R
 N E T I B O R R

III (E R R O N T I B
 N D A D E R R O
 I T N O R R E B
 N O R R E D A D

IV (I B E R R I N T
 N U M U O D A D
 N O R R E B I T
 N I A D U M U

A 1

B 2

D 2

E 3

H 1

I 2

M 1

N 2

O 3

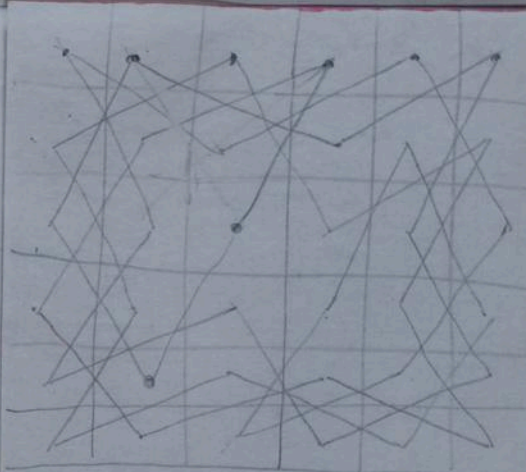
R 4

T 2

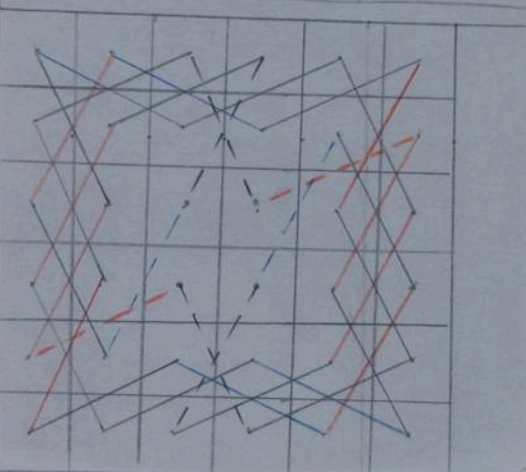
U 2

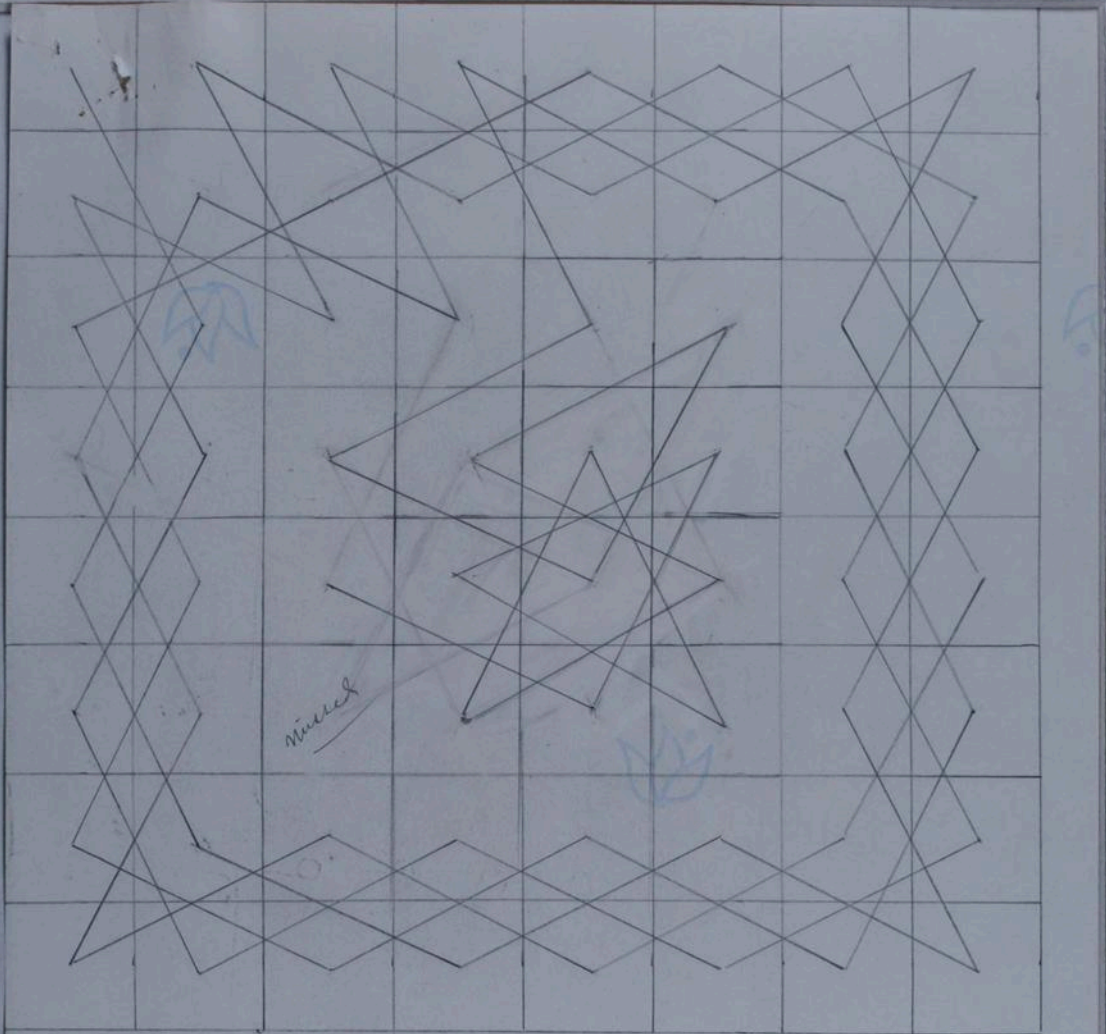
 25

	E	O	R		T
W	O		H	W	
R		A	S	O	
B	L	A	A		E
<i>A race by any</i>					Y
	N	E			
D	<i>other name</i>			N	M
	<i>its</i>				



S	E	O	R	L	S
T	O	D	W	M	N
E	M	A	Y	S	U
S	H	L	E	A	A
E	T	R	B	O	A
E	E	W	L	N	Y

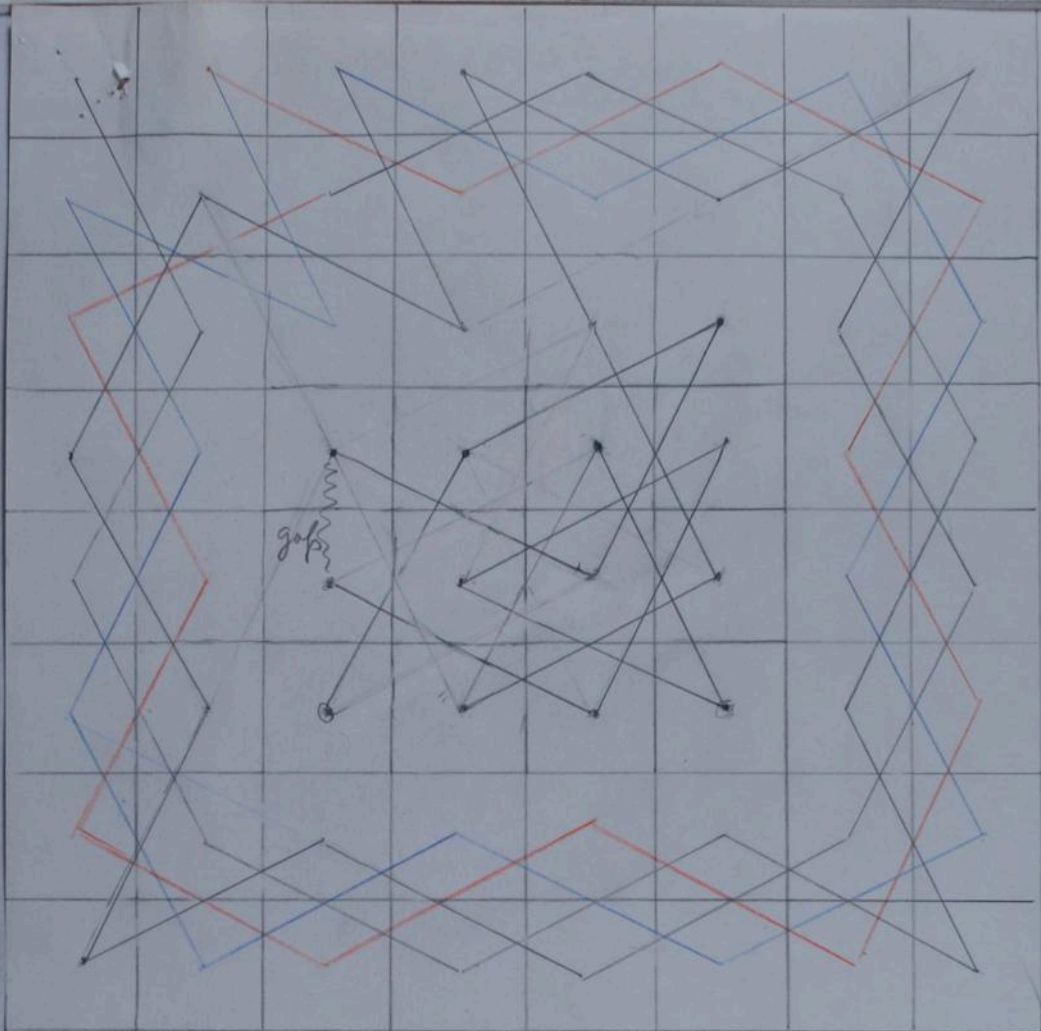




Muller

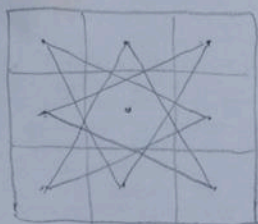
8x8

5mm



gafz

8x8 mitl.



no 3x3

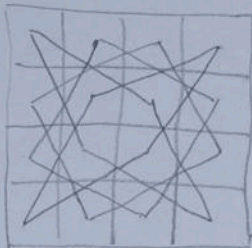


$$\begin{array}{r}
 4 \text{ " " } \longrightarrow 8 \\
 8 \text{ " " } \longrightarrow 24 \\
 4 \text{ " " } \longrightarrow 16 \\
 \hline
 16 \text{ centers} \quad 48 \text{ links} \Big| \div 2 \rightarrow 24 \text{ distinct lks.}
 \end{array}$$

For a continuous, non-overlapping closed path 16 links are required

A solution must leave out 8 of the possible 24 lks.

- 1) Is there a symmetrical solution? ^{no!} In any case any solution requires the use of all 8 distinct links leaving corners



This determines the remainder.

The result is 4 closed paths

no 4x4 solution with all

I, too, was born in Arcadie,

I, too, received in my cradle

Nature's promise of joy.

I, too, was born in Arcadie

Yet only tears for the brief epity — give me.

Life's May-morn flowers once only;

mine is already past flowering.

The silent god — Oh weep, my brethren, —

The silent god extinguishest my torch,

And the affection flees.

What does this
mean.

Here, ^{altered} upon your gloomy bridge I stand,

Fearful eternity.

Take back my authorization to joy

To you I return it unrepentant

For I repent not, nay for do I know.

In case you haven't seen this, it's from Sachinall. West's
70 Simpson in the Sea..

Love one another, but make not a bond of love.
Fill each other's cup, but drink not from one cup.

Let there be spaces in your togetherness
And let the winds of heaven dance between you
Sing and dance together and be joyous and
let each one of you be alone,
Even as the strings of a lute are alone
though they give us with the same music.

Stand together, yet not too near together;
For the pillars of the temple stand apart
And the oak tree and the cypress tree grow not
in each other's shadows