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1 Prithvi Kannan
2 405110096
3 Lab 5
4 -----
5
6 exercise 1:
7 1. emacs exer1.html
8 2. C-s H T M L Enter
9 3. C-s s c a v e n g e r M-b
10 4. C-s s e l f - r e f e r e n t i a l M-b M-b
11 5. C-s a r r o w M-b
12 6. C-e
13 7. C-a
14 8. I didn't use the arrow keys
15 9. I didn't use the arrow keys
16 10. C-x C-c
17
18 exercise 2:
19 2. M-g g 19 C-k
20 3. C-s D E L E T E - M E D E L E T E - M E D E L E T E - M E Enter C-a C-w
21 4. C-s h t t p s : / / e n . w i k i p e d i a . o r g C-s C-a C-p C-@ C-n C-n C-e C-w
22 C-s <!-- Enter C-b C-b C-b C-b C-@ C-s --> Enter C-w
23 C-s <!-- Enter C-b C-b C-b C-b C-@ C-s --> Enter C-w
24 C-s <!-- Enter C-b C-b C-b C-b C-@ C-s --> Enter C-w
25
26 exercise 3:
27 2. M-% A s s i g n m e n t SP 1 Enter A s s i g n m e n t SP 4 2 Enter y y Enter
28 3. M-% U T F - 8 Enter U S - A S C I I Enter y
29 4. C-M-s [ ^ [ : a s c i i : ] ] C-a C-k
30 5. C-x [ C-s < / o l > Enter C-j
31
32 exercise 4:
33 3. C-x ] C-r <!-- C-@ C-s --> M-w C-s < / h t m l > C-r C-n C-y C-j
34 4. C-x ] C-r C-r C-r <!-- C-@ C-s --> M-w C-r s h o u l d SP o u t p u t C-r C-n C-y C-j
35 C-x ] C-r C-r C-r C-r <!-- C-@ C-s --> M-w C-r s h o u l d SP o u t p u t C-r Enter C-s g C-y
36 C-x ] C-r C-r C-r C-r C-r <!-- C-@ C-s --> M-w C-r s u b m i t C-r C-r C-r C-n C-y C-j
37 C-x ] C-r C-r C-r C-r C-r C-r <!-- C-@ C-s --> M-w C-r H o m e w o r k C-r C-n C-y C-j
38 C-x ] C-r C-r C-r C-r C-r C-r C-r <!-- C-@ C-s --> M-w C-r L a b o r a t o r y C-r C-n C-y C-j
39 5. C-x ] C-r - - - e x e r C-@ C-x ] C-w
40 6. C-x u
41 7. C-x ] C-r - - - e x e r C-@ C-x ] M-x comment-region
42 8. M-% < o l > Enter < o l > Enter y y y y y y //there were 7 occurrences
43
44 exercise 5:
45 1. emacs M-x m k d i r Enter j u n k Enter
46 2. C-x C-f j u n k / h e l l o . c Enter Right-click (to paste)
47 3. M-x c o m p i l e Enter C-a C-k g c c SP h e l l o . c Enter
48 4. C-x b h e l l o - o u t Enter C-u M-! . / a . o u t Enter
49 5. C-@ C-e M-w // the contents copied are EOF on input
50
51 exercise 6:
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52 1. C-x b * s c r a t c h * Enter
53 2. ( r a n d o m SP " 4 0 5 - 1 1 0 - 0 9 6 " ) C-j
54 the result is -1273291771740444284
55 3. ( s e t q SP x SP ( r a n d o m ) )
56 x is -1310852660790842604
57 ( s e t q SP y SP ( r a n d o m ) )
58 y is 639295432029956439
59 4. (* SP x SP y) C-j
60 1872161401990567884 This number is mathematically incorrect since a negative times positive should give negative.
61 5. M-: (* SP x SP y) Enter
62 -1649107017113227460 (#o244351436370027127474, #x291d31e7c05caf3c) The number is the same but there are two more numbers that st
63 6. These are pseudo-random numbers, not real random numbers. Pseudo random numbers will always give the same result from a given se
64 true random numbers will not.
65 7. The situation under which the product will be mathematically is when it is greater than integer max or less than integer min. A
66 that the max value is  $2^{61}-1$  and the min is  $-2^{61}$ . Given an x value, the number of y values that would yield overflow is  $2^{61}-1$ 
67 can take on any value, we must sum over the set of x values. For simplicity, we will segment the set of x values by those greater
68 This yields 4 cases: ++, +-, -+, -- for the signs of x and y respectively. Therefore we have 4 * summation from  $x=0$  to  $x=2^{61}-1$  of
69 set of possibilities for x and y is  $(2^{62})^2$  which gives  $2^{124}$ . Therefore the probability is  $(4 * \text{summation from } x=0 \text{ to } x=2^{61}-1 \text{ of } y \text{ values}) / 2^{124}$ 
70
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