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1. initialize number to 0
2. initialize re to 0
3. initialize l to 0
4. initialize name[100] to { "Lawrence Cheung", "Helen Wong", "Simon Sui", "Mary Ho" }
5. initialize email[100] to { "encc2eie.polyu.edu.hk", "helenwong@yahoo,com.hk", "ss123@gmail.com", "ho.mary10@netvigator.com" }
6. initialize phoneno[100] to { 27666131,94665888,64441234,21111112 }
7. initialize n1 to 4
8. initialize e1 to 4
9. initialize p1 to4
10. initialize tof to 0
11. initialize ci to 0
12. initialize useless to 0
13. for(int i=4;i<100;i++)
14. name[i] = "nnn";
15. email[i] = "eee";
16. phoneno[i] = 00000000;
18. for(;re==0;)
19. print "\*\*\*\*\*\*\*\*\*\*\*Main Menu\*\*\*\*\*\*\*\*\*\*\*\*\*"
20. print "1. Initialize the address book"
21. print "2. Create person contact information"
22. print "3. Lookup person contact information"
23. print "4. Lookup all person contact information"
24. print "5. Quit"
25. print "Please enter your choice <1, 2, 3, 4 or 5 to quit>:"
26. initialize number to 0
27. prompt user input 1-5 into number
28. if number >5 or number<=0
29. print"Invalid input. Please enter again!"
30. if number==1
31. for(int i=4;i<100;i++)
32. name[i] = "nnn";
33. email[i] = "eee";
34. phoneno[i] = 00000000;
35. for(int i=0;i<100;i++)
36. if(phoneno[i]==00000000)
37. break
38. print"Name is:"<<name[i]
39. print"Email is:"<< email[i]
40. print"Telephone number is:"<<phoneno[i]
41. print"Initialization is completed"
42. if number ==2
43. initialize noofrecord to 0
44. print "Please enter the total number of records to be created :"
45. prompt user input 1-10 into noofrecord
46. ci = noofrecord % 1
47. if noofrecord>10 or noofrecord<0 or ci>0 or noofrecord==0
48. print"The input is invalid. It must be an integer not greater than 10."
49. for (int i=0;i<noofrecord;i++)
50. initialize phoneno1 to 0
51. print "Full name: "
52. prompt user input name1
53. regex n("[a-zA-Z0-9\\s]\*")
54. if(regex\_match(name1, n))
55. useless++
56. else
57. print"For a full name, only space characters and letters are allowed"
58. print"Email address: "
59. prompt user input email1
60. regex e("[a-zA-Z0-9]\*@[a-zA-Z0-9]\*")
61. if (regex\_match(email1, e))
62. useless++;
63. else
64. print"For an email address, one character '@' must be found. Moreover, there must be some character before and after the character '@' "
65. print"Telephone number :";
66. prompt user input phoneno1
67. set spn = phoneno1
68. for(;spn>0;)
69. spn = spn / 10
70. d++;
71. cp = phoneno1 / 10000000
72. if cp==0 or d!=8 or phoneno1==0
73. print "For a telephone number, it must be an 8-digit integer and the first digit cannot be zero"
74. name[n1] = name1
75. n1++
76. email[e1] = email1
77. e1++
78. phoneno[p1] = phoneno1
79. p1++
80. print "All new records are saved!" << endl;
82. if number==3
83. initialize l to 0
84. for(;l==0;)
85. print "\*\*\*\*\*\*\*\*\*\*\*SUB-MENU\*\*\*\*\*\*\*\*\*\*\*\*\*"
86. print "a. Search record by name"
87. print "b. Search record by email address"
88. print "c. Search record by telephone number"
89. print "d. Return to main menu"
90. print "Please enter your chioce <a, b, c or d to return "
91. prompt users input choice
92. switch (choice)
93. case a
94. print "Please enter a name to search :"
95. prompt user input sn
96. for(int i=0;i<100;i++)
97. if name[i]==sn
98. print "Name :" << name[i]
99. print "Email address :" << email[i]
100. print "Telephone number is :" << phoneno[i]
101. tof = 1
102. break
103. if (tof == 0)
104. cout << "Sorry, no record is found" << endl;
105. break
106. case b
107. print "Please enter a email to search :"
108. prompt user input se
109. for (int i = 0; i < 100; i++)
110. if (email[i] == se)
111. print "Name :" << name[i]
112. print "Email address :" << email[i]
113. print "Telephone number is :" << phoneno[i]
114. tof = 1;
115. break;
116. if (tof == 0)
117. print "Sorry, no record is found"
118. break
119. case c
120. print "Please enter a telephone number to search :"
121. prompt user input sp
122. for (int i = 0; i < 100; i++)
123. if (phoneno[i] == sp)
124. print "Name :" << name[i]
125. print "Email address :" << email[i]
126. print "Telephone number is :" << phoneno[i]
127. tof = 1;
128. break;
129. if (tof == 0)
130. print "Sorry, no record is found"
131. break
132. case d
133. l = 1;
134. break;
135. default:
136. print "Invalid input. Please enter again!"
137. if number ==4
138. for(int i=0;i<100;i++)
139. if phoneno[i]==00000000
140. break
141. print "Name :" << name[i]
142. print "Email :" << email[i]
143. print "Phone number :" << phoneno[i]
144. if number ==5
145. print "Goodbye!"
146. re = 1