

Bash:

```
michaelwul@login-02 ~ $ ./phonebook.bash datebook.txt
Menu Options:
1. List records alphabetically by first name
2. List records alphabetically by last name
3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit
Choose an option: 1
Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Ephram Hardy:293-259-5395:235 Carlton Lane, Joliet, IL 73858:8/12/20:56700
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Igor Chevsky:385-375-8395:3567 Populus Place, Caldwell, NJ 23875:6/18/68:23400
James Ikeda:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
Jon DeLoach:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Jose Santiago:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
Karen Evich:284-758-2857:23 Edgecliff Place, Lincoln, NB 92086:7/25/53:85100
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Lesley Kirstin:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
Lori Gortz:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Norma Corder:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Paco Gutierrez:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Popeye Sailor:156-454-3322:945 Bluto Street, Anywhere, USA 29358:3/19/35:22350
Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
Steve Blenheim:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300
Tommy Savage:408-724-0140:1222 Oxbow Court, Sunnyvale, CA 94087:5/19/66:34200
Vinh Tranh:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900
William Kopf:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500
Yukio Takeshida:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
```

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5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option: 2

Steve Blenheim:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Igor Chevsky:385-375-8395:3567 Populus Place, Caldwell, NJ 23875:6/18/68:23400
Norma Corder:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
Jon DeLoach:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Karen Evich:284-758-2857:23 Edgecliff Place, Lincoln, NB 92086:7/25/53:85100
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
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Lori Gortz:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Paco Gutierrez:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Ephram Hardy:293-259-5395:235 Carlton Lane, Joliet, IL 73858:8/12/20:56700
James Ikeda:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500
Lesley Kirstin:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
William Kopf:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500
Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Popeye Sailor:156-454-3322:945 Bluto Street, Anywhere, USA 29358:3/19/35:22350
Jose Santiago:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
Tommy Savage:408-724-0140:1222 Oxbow Court, Sunnyvale, CA 94087:5/19/66:34200
Yukio Takeshida:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
Vinh Tranh:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900

Choose an option: 3

Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Yukio Takeshida:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
William Kopf:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500
Vinh Tranh:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900
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Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
Popeye Sailor:156-454-3322:945 Bluto Street, Anywhere, USA 29358:3/19/35:22350
Paco Gutierrez:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Norma Corder:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Lori Gortz:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Lesley Kirstin:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
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Karen Evich:284-758-2857:23 Edgecliff Place, Lincoln, NB 92086:7/25/53:85100
Jose Santiago:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
Jon DeLoach:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
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Ephram Hardy:293-259-5395:235 CarltonLane, Joliet, IL 73858:8/12/20:56700
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500
Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000

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4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option: 4

Vinh Trinh:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900
Yukio Takeshida:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
Tommy Savage:408-724-0140:1222 Oxbow Court, Sunnyvale, CA 94087:5/19/66:34200
Jose Santiago:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
Popeye Sailor:156-454-3322:945 Bluto Street, Anywhere, USA 29358:3/19/35:22350
Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
William Kopf:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500
Lesley Kirstin:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500
James Ikeda:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Ephram Hardy:293-259-5395:235 Carlton Lane, Joliet, IL 73858:8/12/20:56700
Paco Gutierrez:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Lori Gortz:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Karen Evich:284-758-2857:23 Edgecliff Place, Lincoln, NB 92086:7/25/53:85100
Jon DeLoach:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
Norma Corder:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Igor Chevsky:385-375-8395:3567 Populus Place, Caldwell, NJ 23875:6/18/68:23400
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Steve Blenheim:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300

```
Choose an option: 5
Enter last name: Evich
Karen Evich:284-758-2857:23 Edgecliff Place, Lincoln, NB 92086:7/25/53:85100
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Menu Options:
1. List records alphabetically by first name
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3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit
Choose an option: 6
Enter month or year to search for (e.g., MM or YYYY): 11
Steve Blenheim:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Menu Options:
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3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit
Choose an option: 6
Enter month or year to search for (e.g., MM or YYYY): 1
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Jose Santiago:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
Menu Options:
1. List records alphabetically by first name
2. List records alphabetically by last name
3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit
Choose an option: 6
Enter month or year to search for (e.g., MM or YYYY): 2023
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Menu Options:
1. List records alphabetically by first name
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4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit
Choose an option: -1
Invalid option. Please try again.
```

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4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option: 10

Invalid option. Please try again.

Menu Options:

1. List records alphabetically by first name
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4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option: 7

Exiting...

michaelwul@login-02 ~ \$

C-Shell:

```
michaelwul@login-02 ~ $ ./phonebook.csh datebook.txt
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1. List records alphabetically by first name
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5. Search for a record by last name
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7. Exit
Choose an option:
1
Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Ephram Hardy:293-259-5395:235 Carlton Lane, Joliet, IL 73858:8/12/20:56700
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Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
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Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
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Choose an option:

2

Steve Blenheim:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
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7. Exit

Choose an option:

3

Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Yukio Takeshida:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
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Jon DeLoach:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
James Ikeda:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Igor Chevsky:385-375-8395:3567 Populus Place, Caldwell, NJ 23875:6/18/68:23400
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Ephram Hardy:293-259-5395:235 Carlton Lane, Joliet, IL 73858:8/12/20:56700
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500
Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000

Menu Options:

1. List records alphabetically by first name
2. List records alphabetically by last name
3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

4

Vinh Tranh:438-910-7449:8235 Maple Street, Wilmington, VM 29085:9/23/63:68900
Yukio Takeshida:387-827-1095:13 Uno Lane, Ashville, NC 23556:7/1/29:57000
Tommy Savage:408-724-0140:1222 Oxbow Court, Sunnyvale, CA 94087:5/19/66:34200
Jose Santiago:385-898-8357:38 Fife Way, Abilene, TX 39673:1/5/58:95600
Popeye Sailor:156-454-3322:945 Bluto Street, Anywhere, USA 29358:3/19/35:22350
Arthur Putie:923-835-8745:23 Wimp Lane, Kensington, DL 38758:8/31/69:126000
Zippy Pinhead:834-823-8319:2356 Bizarro Ave., Farmount, IL 84357:1/1/67:89500
Jesse Neal:408-233-8971:45 Rose Terrace, San Francisco, CA 92303:2/3/36:25000
Sir Lancelot:837-835-8257:474 Camelot Boulevard, Bath, WY 28356:5/13/69:24500
William Kopf:846-836-2837:6937 Ware Road, Milton, PA 93756:9/21/46:43500
Lesley Kirstin:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600
Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500
James Ikeda:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000
Ephram Hardy:293-259-5395:235 Carlton Lane, Joliet, IL 73858:8/12/20:56700
Paco Gutierrez:835-365-1284:454 Easy Street, Decatur, IL 75732:2/28/53:123500
Lori Gortz:327-832-5728:3465 Mirlo Street, Peabody, MA 34756:10/2/65:35200
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200
Karen Evich:284-758-2857:23 Edgecliff Place, Lincoln, NB 92086:7/25/53:85100
Jon DeLoach:408-253-3122:123 Park St., San Jose, CA 04086:7/25/53:85100
Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900
Norma Corder:397-857-2735:74 Pine Street, Dearborn, MI 23874:3/28/45:245700
Igor Chevsky:385-375-8395:3567 Populus Place, Caldwell, NJ 23875:6/18/68:23400
Betty Boop:245-836-8357:635 Cutesy Lane, Hollywood, CA 91464:6/23/23:14500
Steve Blenheim:238-923-7366:95 Latham Lane, Easton, PA 83755:11/12/56:20300

Menu Options:

1. List records alphabetically by first name
2. List records alphabetically by last name
3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

5

Enter last name:

Fardbarkle

Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900

Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900

Menu Options:

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5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

6

Enter month or year to search for (e.g., MM or YYYY):

4

Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900

Fred Fardbarkle:674-843-1385:20 Parak Lane, DeLuth, MN 23850:4/12/23:780900

Lesley Kirstin:408-456-1234:4 Harvard Square, Boston, MA 02133:4/22/62:52600

Menu Options:

1. List records alphabetically by first name
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4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

6

Enter month or year to search for (e.g., MM or YYYY):

12

James Ikeda:834-938-8376:23445 Aster Ave., Allentown, NJ 83745:12/1/38:45000

Barbara Kertz:385-573-8326:832 Ponce Drive, Gary, IN 83756:12/1/46:268500

Menu Options:

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5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

6

Enter month or year to search for (e.g., MM or YYYY):

1935

Jennifer Cowan:548-834-2348:583 Laurel Ave., Kingsville, TX 83745:10/1/35:58900

Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200

Karen Evich:284-758-2867:23 Edgecliff Place, Lincoln, NB 92743:11/3/35:58200

Popeye Sailor:156-454-3322:945 Bluto Street, Anywhere, USA 29358:3/19/35:22350

Menu Options:

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5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

-5

Invalid option. Please try again.

Menu Options:

1. List records alphabetically by first name
2. List records alphabetically by last name
3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

24

Invalid option. Please try again.

Menu Options:

1. List records alphabetically by first name
2. List records alphabetically by last name
3. List records in reverse alphabetical order by first name
4. List records in reverse alphabetical order by last name
5. Search for a record by last name
6. Search for records by birthday (month or year)
7. Exit

Choose an option:

7

Exiting...

michaelwul@login-02 ~ \$