

Project 3 User Guide

Once the project is opened you get this menu:

```
cout << "\n===== Block Management Menu =====\n";  
  
    cout << "1. Dump Blocks in Physical Order\n";  
  
    cout << "2. Dump Blocks in Logical Order\n";  
  
    cout << "3. Query a Block by RBN\n";  
  
        cout << "4. Get the most of each state.\n";  
  
        cout << "5. Search for several zip codes.\n";  
  
    cout << "6. Exit\n";
```

From this you can select an option from 1 to 6 that you want to use.

Option 1 gives you all of the blocks in physical order. Which a section of that looks like this:

RBN: 3675 99786 Ambler AK Northwest Arctic 67.0861 -157.8514 99788 Chalkyitsik AK Yukon-Koyukuk (CA) 66.6544 -143.7222 99789 Nuiqsut AK North Slope 70.1927 -150.9971 99790 Fairbanks AK Fairbanks North Star 64.8378 -147.7164 99791 Atkasuk AK North Slope 70.4947 -157.4411 99801 Juneau AK Juneau City and Borough 58.3628 -134.5294 99802 Juneau AK Juneau City and Borough 58.3019 -134.4197 99803 Juneau AK Juneau City and Borough 58.3019 -134.4197 99811 Juneau AK Juneau City and Borough 58.3019 -134.4197

RBN: 3676 99812 Juneau AK Juneau City and Borough 58.3271 -134.4742 99820 Angoon AK Skagway-Hoonah-Angoon 57.5005 -134.586 99821 Auke Bay AK Juneau City and Borough 58.4494 -134.7003 99824 Douglas AK Juneau City and Borough 58.2756 -134.395 99825 Elfin Cove AK Skagway-Hoonah-Angoon 58.1944 -136.3433 99826 Gustavus AK Skagway-Hoonah-Angoon 58.4284 -135.7615 99827 Haines AK Haines 59.2519 -135.542 99829 Hoonah AK Skagway-Hoonah-Angoon 58.0977 -135.4316 99830 Kake AK Wrangell-Petersburg (C 56.9736 -133.936

RBN: 3677 99832 Pelican AK Skagway-Hoonah-Angoon 57.9608 -136.2275 99833 Petersburg AK Wrangell-Petersburg (C 56.8271 -133.1607 99835 Sitka AK Sitka City and Borough 57.0514 -135.3166 99836 Port Alexander AK Wrangell-Petersburg (C 56.2497 -134.6444 99840 Skagway AK Skagway-Hoonah-Angoon 59.4685 -135.3018 99841 Tenakee Springs AK Skagway-Hoonah-Angoon 57.7808 -135.2189 99850 Juneau AK Juneau City and Borough 58.3019 -134.4197 99901 Ketchikan AK Ketchikan Gateway 55.372 -131.6832

Option 2 gives one block in logical order which looks like this:

Dumping Blocks by Logical Order:

RBN: 20 1531 New Braintree MA Worcester 42.3198 -72.1306 1532 Northborough MA Worcester 42.3182 -71.6464 1534 Northbridge MA Worcester 42.1494 -71.6564 1535 North Brookfield MA Worcester 42.2665 -72.0821 1536 North Grafton MA Worcester 42.2297 -71.7037 1537 North Oxford MA Worcester 42.1655 -71.886 1538 North Uxbridge MA Worcester 42.0876 -71.6412 1540 Oxford MA Worcester 42.1129 -71.8687 1541 Princeton MA Worcester 42.4508 -71.8762 1542 Rochdale MA Worcester 42.1997 -71.9069

Option 3 Queries a block which looks like this:

Enter the RBN of the block you want to query: 27

Details of Block RBN 27:

Available: No

Records: 1784 Woodville MA Middlesex 42.2376 -71.562 1801 Woburn MA Middlesex 42.4829 -71.1574 1803 Burlington MA Middlesex 42.5089 -71.2004 1805 Burlington MA Middlesex 42.5048 -71.1956 1810 Andover MA Essex 42.6496 -71.1565 1812 Andover MA Essex 42.6472 -71.1842 1813 Woburn MA Middlesex 42.4793 -71.1523 1815 Woburn MA Middlesex 42.4793 -71.1523 1821 Billerica MA Middlesex 42.5519 -71.2518 1822 Billerica MA Middlesex 42.5584 -71.2689 1824 Chelmsford MA Middlesex 42.5911 -71.3556

Predecessor RBN: 26

Successor RBN: 28

Option 4 gives you a list of all of the eastmost, westmost, northmost, and southernmost of each state which looks like this:

Enter your choice: 4

State: Easternmost: westernmost: northernmost: southernmost:

AA,34034,33994,34034,33994

AK,99927,99950,99929,99950

AL,36925,36922,36925,36921

AP,96373,96507,96507,96373

AR,72959,72959,72959,72959

AZ,86556,86556,86556,86556

CA,96160,96156,96161,96158

CO,81658,81657,81657,81658

CT,6912,6922,6912,6926
DC,56915,56972,56915,56972
DE,19964,19971,19977,19975
FL,34995,34997,34996,34997
FM,96942,96942,96942,96942
GA,39886,39901,39901,39897
HI,96857,96898,96857,96898
IA,52802,52807,52805,52802
ID,83872,83874,83877,83871
IL,62997,62995,62997,62993
IN,47996,47997,47997,47996
KS,67950,67905,67952,67950
KY,42762,42758,42788,42759
LA,71486,71485,71497,71496
MA,5486,5501,5488,5501
MD,21918,21920,21918,21930
ME,4992,4987,4987,4989
MH,96951,96960,96951,96960
MI,49968,49962,49963,49964
MN,56755,56763,56755,56754
MO,65890,65899,65890,65899
MP,96951,96942,96951,96942
MS,39767,39773,39776,39772
MT,59935,59936,59930,59931
NC,28903,28904,28901,28903
ND,58853,58852,58856,58854
NE,69358,69366,69365,69355
NH,3897,3878,3897,3885
NJ,8933,8989,8933,8989

NM,88439,88436,88436,88435
NV,89834,89883,89832,89833
NY,14895,14902,14893,14894
OH,45898,45890,45890,45999
OK,74962,74963,74964,74963
OR,97917,97918,97918,97917
PA,19609,19612,19612,19611
PW,96857,96898,96857,96940
RI,2917,2915,2917,2921
SC,29943,29941,29944,29943
SD,57799,57790,57787,57794
TN,38588,38589,38588,38589
TX,88585,88585,88585,88585
UT,84791,84791,84791,84791
VA,24656,24651,24658,24649
VT,5874,5902,5902,5904
WA,99363,99402,99371,99363
WI,54982,54979,54978,54979
WV,26886,26865,26852,26866
WY,83355,83414,83414,83355

----- State Most Data -----

Option 5 lets you search for zip codes. The input has to look like this -z1020-z45373. It looks like this:

Please enter the zip codes you want!

-z1020-z45373

Zipcode: 1020 is at 2

1020 Chicopee MA Hampden 42.1764 -72.5761

Zipcode: 45373 is at 1689

45373 Troy OH Miami 40.0374 -84.2032

Option 6 closes the program.