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# Print Alphabetically

Code Id 7

Date Updated 3/7/2010

Title Print alphabetically

Description

Write a program that reads a series of lines and prints the lines in alphabetical You may assume that there are at most 1000 lines You may assume that each line ha You may assume that the last line of input ends with a newline.

### **Codes Snippet**

```
#include
#include
char x[1000][1000];
int xlen[1001];
int y;
Line 0 has xlen[0] bytes: x[0][0], x[0][1], ..., x[0][xlen[0]-1]. Line 1 has xlen[1] bytes: x[1][0], x[1][1], ..., x[1][xlen[1]-1]. Line 2 has xlen[y] bytes: x[2][0], x[2][1], ..., x[2][xlen[2]-1].
Line y has xlen[y] bytes: x[y][0], x[y][1], ..., x[y][xlen[y]-1].
That's all the input.
void print(int i) /* print out line i */
  int k;
  for (k = 0; k < xlen[i]; ++k)
    putchar(x[i][k]);
  putchar('n');
void copy(int i,int j) /* copy line j to line i */
  for (k = 0; k < 1000; ++k)
    x[i][k] = x[j][k];
  xlen[i] = xlen[j];
int smaller(int i,int j) /* is line i alphabetically before line j? */
  int k:
  for (;;) {
    if (k >= xlen[i]) return 1;
    if (k \ge xlen[j]) return 0;
     if (tolower(x[i][k]) < tolower(x[j][k])) return 1;</pre>
    if (tolower(x[i][k]) > tolower(x[j][k])) return 0;
int main(void)
  char c;
  int i:
  int smallest;
  xlen[0] = 0;
  y = 0;
  while (scanf("%c",&c) == 1)
```

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```
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if (smaller(i,smallest))
    smallest = i;
    print(smallest);
    copy(smallest,--y);
}

return 0;
}
```

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