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Smart Reading

Code Id	11
Date Updated	3/7/2010
Title	Smart reading
Description	

Write a program that, given a list of names, prints the names in order, one name per line. A name is a first name followed by a last name; the order of names is alphabetical. If two names match. You may assume that all names are in uppercase. For example, your program will print

```
MICHAEL DOUGLAS
DARYL HANNAH
CHARLIE SHEEN
MARTIN SHEEN
```

You will not receive extra credit for identifying the film

Codes Snippet

```
void printstring(char *x)
{
    while (*x)
        putchar(*x++);
}

/* 1 if the string s is larger than the string t; 0 otherwise. */
int strlarger(char *s,char *t)
{
    for (;;) {
        if (!*s) return 0;
        if (!*t) return 1;
        if (*s > *t) return 1;
        if (*s < *t) return 0;
        ++s;
        ++t;
    }
}

/* 1 if the name p[0] p[1] is smaller than the name q[0] q[1]; 0 otherwise. */
int namesmaller(char *p[2],char *q[2])
{
    if (strlarger(q[1],p[1]))
        return 1;
    if (strlarger(p[1],q[1]))
        return 0;
    if (strlarger(q[0],p[0]))
        return 1;
    return 0;
}

int main(int argc,char **argv)
{
    int i;
    int smallest;

    while (argc > 2) {
        smallest = 1;
        for (i = 3;i + 1 < argc;i += 2)
            if (namesmaller(argv + i,argv + smallest))
                smallest = i;
        printstring(argv[smallest]);
        printstring(" ");
        printstring(argv[smallest + 1]);
        printstring("\n");
        argc -= 2;
        argv[smallest] = argv[argc];
        argv[smallest + 1] = argv[argc + 1];
    }

    return 0;
}
```

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