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File Compression

Code Id	4
Date Updated	3/7/2010
Title	File Compression

Description

Write a squish program that reads a file, creates a new file whose contents are a
and uses the standard function remove to remove the original file. The original f
and the new file name is the original file name followed by .squish;for example,
will read data.txt, write data.txt.squish, and call remove("data.txt"). The compr
for example, the thought is compressed into Qe Qought.Your program must exit nonz
if it has any trouble reading, writing, etc., or if the original file contains Q.

Codes Snippet

```c
#include
#include
#include

int main(int argc,char **argv)
{
  char *x = 0;
  int xspace = 0;
  int xlen = 0;
  FILE *f;
  char *newfn;
  char c;

  if (!argv[1]) exit(100);

  f = fopen(argv[1],"r");
  if (!f) exit(111);

  while (fscanf(f,"%c",&c) == 1) {
    if (c == 'Q') exit(100);
    if (xlen == xspace) {
      xspace = xspace * 2 + 1;
      x = realloc(x,xspace * sizeof(int));
      if (!x) exit(111);
    }
    if (xlen && (x[xlen - 1] == 't') && (c == 'h'))
      x[xlen - 1] = 'Q';
    else
      x[xlen++] = c;
  }

  if (ferror(f)) exit(111);

  newfn = malloc(strlen(argv[1]) + 8);
  if (!newfn) exit(111);

  strcpy(newfn,argv[1]);
  strcat(newfn,".squish");

  f = fopen(newfn,"w");
  if (!f) exit(111);

  while (xlen-- > 0)
    if (fprintf(f,"%c",*x++) == -1) exit(111);

  if (fflush(f) == -1) exit(111);

  remove(argv[1]);
  exit(0);
}
```

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