1. Function and Use.

This small program will convert Big 5+ or GBK encoded Chinese characters into a 'preprocessed' form. The need of this program arises from the fact that these two encodings use the characters '\', '{', and '}' which have special meanings in TEX.

Use this program as a filter:

```
extconv < input_file > output_file
```

2. The program.

The only function of this program is to replace all occurrences of Big 5+ resp. GBK encoded characters `XY` (`X` and `Y` are the first and the second byte of the character) with `XZZZ^^7f`, where `ZZZ` represents the second byte as a decimal number followed by `0x7F` as a delimiter.

Additionally we define a TEX macro at the very beginning to signal a preprocessed file.

The following code is very simple. No error detection is done because TEX which will see the output of `extconv` complains loudly if something is wrong.

```
#include <stdio.h>
#include <stdlib.h>

  int main(argc, argv)
      int argc;
      char *argv[];
  {int ch;

    fprintf(stdout, "\\def\\CJKpreproc{}");

    ch = fgetc(stdin);

    while (!feof(stdin))
     {if (ch ≥ #81 ∧ ch ≤ #FE)
        {fputc(ch, stdout);

          ch = fgetc(stdin);
          if (!feof(stdin))
             fprintf(stdout, "%d\177", ch);
        }
       else
          fputc(ch, stdout);

       ch = fgetc(stdin);
     }
    exit(EXIT_SUCCESS);
    return 0;                                   /* never reached */
  }
```