

## POLYGLOT AND ESOTERIC PROGRAMMING LANGUAGES

A couple of **esoteric programming languages** like Brainf\*\*k, whitespace is also included in the contest

It will be interesting to discuss some facts about them here.

Brainf\*\*k interpreter neglects everything except the 8 symbols "><,[ ]+ - ." so a brainf\*\*k program can be included in any program within comments.

It consists of only eight commands.

### Character Meaning

>	increment the data pointer (to point to the next cell to the right).
<	decrement the data pointer (to point to the next cell to the left).
+	increment (increase by one) the byte at the data pointer.
-	decrement (decrease by one) the byte at the data pointer.
.	output the value of the byte at the data pointer.
,	accept one byte of input, storing its value in the byte at the data pointer.
[	if the byte at the data pointer is zero, then instead of moving the instruction pointer forward to the next command, jump it <i>forward</i> to the command after the <i>matching</i> ] command.
]	if the byte at the data pointer is nonzero, then instead of moving the instruction pointer forward to the next command, jump it <i>back</i> to the command after the <i>matching</i> [ command.

To know more about Brainf\*\*k go to <http://en.wikipedia.org/wiki/Brainfuck>

### Example

A bilingual in C and Brainf\*\*k which takes as input a string of length 5 and prints its in reverse...

```
#define brainfck >,>,>,>,>,<<<<<<<.  
#include<stdio.h>  
main()  
{  
  int i;  
  char s[5];  
  for(i=0;i<5;i++)  
    s[i] = getchar();  
  for(i=4;i>-1;i--)  
    putchar(s[i]);  
  putchar('\n');  
}
```

