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#include <unistd.h>
#define BUFF_SIZE (4096)

static int    match_brackets(char a, char b)
{
    return ((a == '[' && b == ']') || (a == '{' && b == '}') \
           || (a == '(' && b == ')'));
}

static int    check_brackets(char *str)
{
    int        i;
    int        top;
    int        stack[BUFF_SIZE];

    i = 0;
    top = 0;
    while (str[i])
    {
        if (str[i] == '(' || str[i] == '{' || str[i] == '[')
            stack[++top] = str[i];
        if (str[i] == ')' || str[i] == '}' || str[i] == ']')
            if (!match_brackets(stack[top--], str[i]))
                return (0);

        i += 1;
    }
    return (!top);
}

```

```

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

    i = 0;
    if (argc == 1)
        write(1, "\n", 1);
    while (--argc)
    {
        if (check_brackets(argv[++i]))
            write(1, "OK\n", 3);
        else
            write(1, "Error\n", 6);
    }
    return (0);
}

```