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// File      : Getline.hh
// Author    : A.G.Raja
// License   : GPL
// Website   : http://agraja.wordpress.com

#include <iostream>

using namespace std;

class Getline {
    string text, buffer;
    int pos,p;
public:
    int str(string txt) {
        pos = 0;
        this->text = txt;
    }
    string getline(string delim = "\n", int delim_type = 1);
    char get(string delim = "");
    int unget(int decr = 1) {
        pos -= decr;
    }
    int end() {
        if(pos>=text.size()) return 1;
        else return 0;
    }
    int rewind() {
        pos = 0;
    }
};

string Getline::getline(string delim, int delim_type) {
    p = delim_type ? text.find(delim,pos)
                  : text.find_first_of(delim,pos);
    if(p!=-1) {
        buffer = text.substr(pos,p-pos);
        pos = delim_type ? p+delim.length() : p +1;
    } else {
        buffer = text.substr(pos);
        pos += buffer.length();
    } return buffer;
}

char Getline::get(string delim) {
    if(delim.empty() and pos<text.size()) return text[pos++];
    if(delim.find(text[pos])!=-1) {
        pos++;
        return text[pos-1];
    }
    return 0; // must
}

// End of File Getline.hh

// File      : test_Getline.cpp
// Author    : A.G.Raja
// License   : GPL
// Website   : http://agraja.wordpress.com

#include <iostream>
#include "Getline.hh"

using namespace std;
```

```
int main() {
    Getline g;
    g.str("Hi, my name is Raja\nI'm an Engineer");
    // Get the substring terminated by "y na"
    cout<<g.getline("y na")<<endl;
    // Result: "Hi, m"
    // Lines below show original string and
    // '|' shows the Current position of pointer
    // "Hi, my name is Raja\nI'm an Engineer"
    //          |

    // Get substring terminated by first of "sji"
    cout<<g.getline("sji",0)<<endl;
    // Result: "me "
    // "Hi, my name is Raja\nI'm an Engineer"
    //          |

    // Get line terminated by '\n'
    cout<<g.getline()<<endl;
    // Result: "s Raja"
    // "Hi, my name is Raja\nI'm an Engineer"
    //          |

    // Get single char at current position of pointer
    cout<<g.get()<<endl;
    // Result: "I"
    // "Hi, my name is Raja\nI'm an Engineer"
    //          |

    // Get a char at current position of pointer
    // if it is in the list "_$%'"
    cout<<g.get("_$%'"")<<endl;
    // Result: ""
    // "Hi, my name is Raja\nI'm an Engineer"
    //          |

    // Unget single char, unget 4 chars
    g.unget(); g.unget(4);
    // "Hi, my name is Raja\nI'm an Engineer"
    //          |
}
```