```cpp
#include <iostream>

#include <algorithm>

#include <unordered_set>

#include <string>

using namespace std;

int main()

{


    cout << "SHRAVAN PURWAR" << endl;

    cout << 1816110196 << endl;


    string s;

    getline(cin, s);

    int n = s.size();

    unordered_set<int> st;

    // For +

    st.insert(43);

    //For -

    st.insert(45);

    //For *

    st.insert(42);

    //For /

    st.insert(47);

    //For =
```

```cpp
    st.insert(61); //=


    //Initialisation

    int opr = 0, cons = 0, var = 0, i = 0;


    while (i < n)

    {

        if (int(s[i]) >= 48 && int(s[i]) <= 57)

        {

            cons++;

            while (i < n && int(s[i]) >= 48 && int(s[i]) <= 57)

                i++;

        }


        else if ((int(s[i]) >= 65 && int(s[i]) <= 90) || (int(s[i]) >= 97 && int(s[i]) <= 122))

        {

            var++;

            while (i < n && ((int(s[i]) >= 65 && int(s[i]) <= 90) || (int(s[i]) >= 97 && int(s[i]) <= 122) ||
(int(s[i]) >= 48 && int(s[i]) <= 57)))

            {

                i++;

            }

        }


        else if (st.find(int(s[i])) != st.end())
```

```
        {

            opr++;

            i++;

        }

        else if (int(s[i]) == 32)

        {

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#include <unordered_set>

#include <string>

using namespace std;

int main()

{


    cout << "SHRAVAN PURWAR" << endl;

    cout << 1816110196 << endl;


    string s;

    getline(cin, s);

    int n = s.size();

    unordered_set<int> st;

    // For +

    st.insert(43);

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```cpp
        st.insert(45);

        //For *

        st.insert(42);

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        st.insert(47);

        //For =

        st.insert(61); //=


        //Initialisation

        int opr = 0, cons = 0, var = 0, i = 0;


        while (i < n)
        {
            if (int(s[i]) >= 48 && int(s[i]) <= 57)
            {
                cons++;
                while (i < n && int(s[i]) >= 48 && int(s[i]) <= 57)
                    i++;
            }


            else if ((int(s[i]) >= 65 && int(s[i]) <= 90) || (int(s[i]) >= 97 && int(s[i]) <= 122))
            {
                var++;
                while (i < n && ((int(s[i]) >= 65 && int(s[i]) <= 90) || (int(s[i]) >= 97 && int(s[i]) <= 122) ||
(int(s[i]) >= 48 && int(s[i]) <= 57)))
```

```cpp
        {

            i++;

        }

    }


        else if (st.find(int(s[i])) != st.end())

        {

            opr++;

            i++;

        }
        else if (int(s[i]) == 32)

        {


            i++;

        }

    }
    cout << "There are " << endl

        << opr << " operators, " << endl

        << cons << " Constants" << endl

        << var << " Variables" << endl;
}           i++;

        }

    }
    cout << "There are " << endl
```

```
                << opr << " operators, " << endl

                << cons << " Constants" << endl

                << var << " Variables" << endl;

        }
```

```cpp
 9  include <iostream>
10  include <algorithm>
11  include <unordered_set>
12  include <string>
13  using namespace std;
14  int main()
15
16
17      cout << "SHRAVAN PURWAR" << endl;
18      cout << 1816110196 << endl;
19
20      string s;
21      getline(cin, s);
22      int n = s.size();
```

```
                                input
SHRAVAN PURWAR
1816110196
2x+8y=100
There are
2 operators,
3 Constants
2 Variables


...Program finished with exit code 0
Press ENTER to exit console.
```