

Answer on Question#37894- Programming, C++

1. I'm learning C in college and when I'm exercising, I stumbled on this task, and it is a problem for me.

Numbers are saved in string, but there are no spaces between them. In order to establish which are these numbers, at the end of the string is information about the number of digits of each number and this information is separated by "?" For example, a valid input string could be 125321?213. Write a procedure `int SumNumb (char * str)` which finds the sum of the numbers that are written in the string. If the input string is: 125321?213 function should return $12 + 5 + 213 = 230$ Formatted file "Strings.txt" contains number of strings, and each of these strings are on a separate line. Example of file: 1010?22 125321?213 1545?4 Note. Considered to be in the file in one line can be most to one hundred characters. How I can solve this problem?

Solution.

```
#include <iostream>
#include <fstream>

using namespace std;

int SumNumb (char* str);
int main(int argc, char* argv[])
{
    int result=0;
    result=SumNumb ("D:\\String.txt");

    cin>>result;

    system("pause");
    return 0;
}

int SumNumb (char* str)
{
    ifstream in;
    in.open(str,ios_base::in);

    int a[100]={0};
    int b[100]={0};
    char c;
    int i=0,j=0,buf=0,result=0,dec=1;
    bool bState;

    while(in)
    {
        while(1)
        {
            in.get(c);

            if(c==32 || in==0){break;}

            if(c==63){bState=false;in.get(c);}

            if(bState){a[i]=atoi(&c);i++;}
            else{b[j]=atoi(&c);j++;}
        }
    }
}
```

```

    }

    i=0;
    for(int k=0; k<j; k++)
    {
        for(int ik=b[k]-1; ik>=0; --ik)
        {
            buf+=a[ik+i]*dec;
            dec*=10;
        }
        cout<<buf<<endl;

        i+=b[k];result+=buf;
        buf=0;dec=1;
    }
    cout<<"Result: "<<result<<endl<<endl;
    i=0;j=0;bState=true;result=0;
}

in.close();
return 0;
}

```

```

c:\ d:\DataBase\qw\Debug\qw.exe
10
10
Result: 20

12
5
321
Result: 338

1545
Result: 1545

```