

Help with atoi function for a numero program.

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.c/2008-05/msg03643.html

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Hi All,

Firstly i am a newbie and trying to learn C.

The background of the problem is

Program:

Presently I am working on a program of numerology and the I/P will be the name and output will be a digit for which there are known characteristics which i will print.

Assume Input: ram spartan

output: a single digit number by adding up the corresponding number to these characters till u get <9 or 11 or 22 and corresponding to that digit there are a list of known characteristics which is to be printed. Refer the link for the table which contains the number equivalent of the character.

<http://www.astrology-numerology.com/num-expression.html>

So i need to add r,a,m corresponding digits (e.g. 9+1+4=14) Now again add 14 as 1+4=5 so i have got the numeral sub_res as 5 for ram. similarly i need to do for spartan sum it up and get it to a single digit which is either < 9 or == 11 or == 22. (assume spartan's final sum is 8). The res will be sum of ram and spartans value 5+8= 13. This again needs to be added up till the result is either res < 9 or res == 11 or res == 22 so that i can print the list of characteristics from 1 - 9 and for 11 and for 22 which is available to me. i can use switch case for this.

Code.

i am pasting the code i have written for this.

```
// C code for numerology
```

```
#include <stdio.h>
#include <ctype.h>
#include <stdlib.h>
#define BUFSIZE 100
```

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```
int main ()
{
int i,c,cnt=0,count=0;
int sub_sum=0,res=0;
char ch,chr;
char str[100],tmp[1];
char name[BUFSIZE] = {'\0'}; // setting char array to all null
characters

printf ("Enter your name (ONLY CAPITAL LETTERS) :- ");
fgets (name,BUFSIZE,stdin);

for (i=0;name[i]!='\0';i++) // loop to check for end of string
{
if(name[i] != ' ') // condition for space
{
ch=name[i];
count=((ch-'A')%9)+1;
sub_sum=sub_sum+count;
// printf("%d\n",sub_sum);
}
else
{
while ((sub_sum > 9) && (sub_sum != 11) &&(sub_sum != 22))
{
sprintf( str, "%d" , sub_sum ); //Convert the number to
string

for ( i=0; str[i]!='\0'; i++)
{

tmp[0]=str[i];
c=atoi(tmp); // I need help here
cnt=cnt+c;
}
printf ("Count is the value of sum of the two integers %d\n",cnt);
if ((cnt > 9) && (cnt != 11) && (cnt != 22))
{
continue;
}
else
{
res += cnt;
sub_sum=0;
break;
}
}
}
}
printf("The sum of the words are %d\n",res);
```

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```
// The code is incomplete i have to again do a sum of res if that  
turns to be a double digit and then check if // the final result will  
be <9 or == 11 or == 22 and if this is fine then pass it to switch  
case to get me the corresponding characteristics of the name.
```

```
}
```

The question to the group is on the atoi function.

I am converting the integer to string and so that

-> i can parse the string,

-> convert it back to integer and

-> sum it up.

(For e.g. in the above code i have sub_sum as 14)

1. i am checking for the condition is true then i am converting the integer to string using sprintf. This works fine. The string is declared as a character array. In this program char str[100];

2. Then using for loop to check for end of line

now str[0] = 1 and later str[1] = 4

now i use atoi to convert the string to integer so that i can perform the sum.

Can someone please explain me what i am doing wrong. atoi needs the string and i am passing a character so i tried passing the charecter to a tmp[] and passing that to atoi function but doesnt solve my purpose.

Any help would be much appreciated.