

Find First of Any

Suppose you want to find the position of the first digit inside a C-string. You can't just use `find()` since you want to look for **any** digit. You'd want a function you could call like this:

```
int pos = first_of_any(cstr, "0123456789");
```

Here's the algorithm you use:

*Look through every character in str
Compare the character to every character in target
If found return the index (in str)
return error code*

Here's an implementation of this algorithm:

```
int first_of_any(const char *str, const char* target)
{
    const char * p1 = str;
    while (*p1 != '\0')
    {
        const char * p2 = target;
        while (*p2 != '\0')
        {
            if (*p2 == *p1) return p1 - str; // found it
            p2++;
        }
        p1++;
    }
    return -1;
}
```



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