

So far, we've lived in a world without much structure...



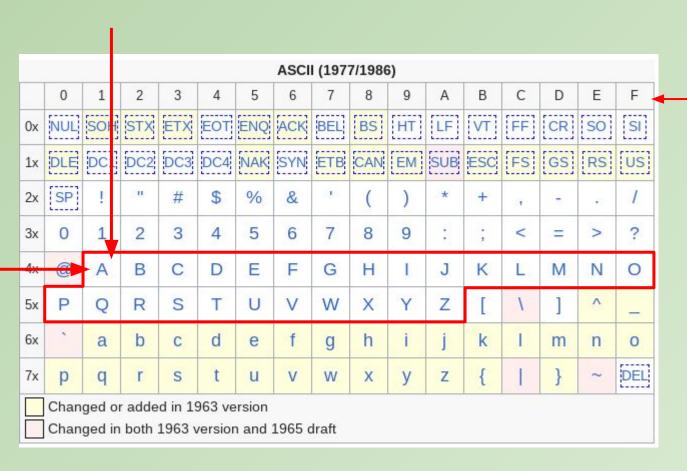
What? And why?

Reconsider...

A previous program

				_
1	901	40	350	
2	705	41	551	
3	640	42	150	
4	801	43	351	
5	551	44	598	
6	902	45	199	
7	000	46	347	
		51	000	
		98	600	





A = 10 B = 11 C = 12 D = 13 E = 14

15

Write a program to translate the following...

This is your program's input:

04×8	04xC
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04×5



We have to make choices.

How do we represent...





What do we need?

Some subroutines...

- Decide how to decode input
- Decide how to translate the input to integer form
- Decide how to store and retrieve later numbers/letters.



Multiply to 10

This...DOES IT!

01	901	10	703
02	330	11	615
03	526	15	526
04	130	16	902
05	326	17	000
06	527	25	009
07	100	26	000
08	327	27	000
09	225		



Clock cycles

Complexity per instruction in our LPC ISA

1XX	3
2XX	3
ЗХХ	1
4LR	1 PER SHIFT
5XX	2
6XX	2
7XX	2
8XX	2
901	1
902	2
000	0

