Introduction to Robotics
Homework B

Embedded systems have a lot to do with precise timing.

Here's a problem that needs it ..

Write a Morse Code interpreter ..

Don't worry you don't need to know morse code. You just need to interpret a dit/dah/space grammar and deliver it to an LED or speaker (your choice).

Your input (defined by a constant in the code so you don't have to worry about keyboard input) will be something like this, which represents 'UCSC'

'SbSbLB LbSbLbSB SbSbSB LbSbLbSB'

where,

- **S** - Dit Symbol (1 unit) (sound/light)
- **L** - Dah Symbol (3 units) (sound/light)
- **b** - Intersymbol space (1 unit)
- **B** - Intercharacter space (3 units)
- **W** - Interword space (7 units)

It's up to you to decide how long the basic unit of a 'Dit' lasts. You can start with 62ms.

Write a program to make this happen.