

# ASCII Code Questions

How do I handle them in the midterm test and exam?

# What you need to know

- Uppercase letters have different ASCII codes than lowercase letters.
- The ASCII code for “A” and “a”:
  - A = 65
  - a = 97

# What is the ASCII code for the word “Test”?

- The word “Test” has four letters: T, e, s, t
- The first step is to figure out the index of each of these letters; in other words their position in the alphabet.
  - T – 20<sup>th</sup> letter
  - e – 5<sup>th</sup> letter
  - s – 19<sup>th</sup> letter
  - t – 20<sup>th</sup> letter

# What is the ASCII code for the word “Test”?

- Add the letter’s index to the ASCII code for “A” for uppercase characters or the ASCII code for “a” for lowercase characters and then subtract 1 to get the ASCII code for the character:
  - $T = 65 + 20 - 1 = 84$
  - $e = 97 + 5 - 1 = 101$
  - $s = 97 + 19 - 1 = 115$
  - $t = 97 + 20 - 1 = 116$
- The ASCII code for “Test” is:  
84 101 115 116

# Practice makes perfect

- Practice these steps using questions from past year tests and exams. You can find those at the following URL:

<https://www.cs.auckland.ac.nz/courses/compsci111ssc/exams/>