## Computational Intelligence Quiz A

Last meeting we briefly discussed how one might go about using CI to generate musical pieces similar to J.S. Bach. One approach might involve a two step process,

- Getting CI to know a Bach piece when it hears it. Lets call this  $CI_1$ .
- Evolving a CI to write the pieces using the CI result above as the fitness function. Lets call this  $CI_2$ .

## Questions

- 1. What would the representation be for potential solutions of  $CI_1$ ?
- 2. What would the representation be for potential solutions of  $CI_2$ ?
- 3. For  $CI_1$  what pieces would you have it 'listen' to? Bach only, so it could become an expert? A mixture of different pieces?
- 4. What would your variation technique(s) be for  $CI_1$ ?
- 5. What would your variation technique(s) be for  $CI_2$ ?
- 6. What would your fitness function be for  $CI_1$ ?
- 7. What would your fitness function be for  $CI_2$ ?