

# Programming Techniques for Scientific Simulations

## Exercise 6

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### Problem 6.1 Function object

In a previous exercise, we have written a static library to perform simpson integration of  $\sin(x)$  in the region  $x \in [0, \pi]$ , where the function is passed as a pointer. In this exercise, implement the simpson integration of  $\sin(\lambda x)$  in the region  $x \in [0, \lambda\pi]$  by the use of a function object.

### Problem 6.2 Class Header for Animal and Genome

If you haven't understood the Penna Model yet, please read the paper as suggested in Exercise 5.

Think of an animal as a genome as an object and write the class headers for them. At the point, **DO NOT IMPLEMENT ANY FUNCTION!**