

## 1996 Paper 1 Question 5

### Foundations of Computer Science

*This question has been translated from Standard ML to OCaml*

Define an OCaml function `rotations` that will compute the list of all rotations of a given list. For example

```
rotations [1; 2; 3] = [[1; 2; 3]; [2; 3; 1]; [3; 1; 2]]
```

The order in which the rotations occur is unimportant. [10 marks]

Carefully explain how your function works and estimate the time complexity of your solution. [10 marks]