

Coding Quiz 3

COMP9021 PRINCIPLES OF PROGRAMMING Term 3, 2022

```
$ python3 quiz_3.py
```

```
Input an arity : 0
```

```
Input a word: f_1
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 0
```

```
Input a word: ()
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 0
```

```
Input a word: function_of_arity_one(hello)
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 1
```

```
Input a word: f)
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 1
```

```
Input a word: f[a]
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 2
```

```
Input a word: f(a, g(b))
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 3
```

```
Input a word: constant
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 3
```

```
Input a word: f((a,b,c))
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 3
```

```
Input a word: f(g(a,a), f(a,b))
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 3
```

```
Input a word: f(g(a,b,c),g(a,b,c),g(a,b,c))
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 3
```

```
Input a word: f(a, g(a, b, f(a,b,c)), b, c)
```

```
The word is invalid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 0
```

```
Input a word: a
```

```
The word is valid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 1
```

```
Input a word: function_of_arity_one(hello)
```

```
The word is valid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 2
```

```
Input a word: F(g(a,a), f(a,b))
```

```
The word is valid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 3
```

```
Input a word: ff(ff(ff(a,b,ff(aa,bb,cc)) , b , ff(a,b,c)) , b , ff(a,ff(a,b,c),c))
```

```
The word is valid.
```

```
$ python3 quiz_3.py
```

```
Input an arity : 4
```

```
Input a word: f(a, FF(a, b, fff(a, b, c, FfFf(a,b,c,d)), FfFf(a,b,c,d)), c, d)
```

```
The word is valid.
```