```
(define a '())
(define b '(()()()))
(define c '(Bob (Jane)))
(define d '(((Bob)(Jane))))
(define e 'Jane)
(define f '((Bob)Jane))
```

Lab 11: Use only first, rest, and cons.

Section A. Given the following definitions:

Variable	Definition	
а	`()	
b	`(()()())	Note:
С	'(Bob (Jane))	You are defining Jane as an atom ;
d	`(((Bob) (Jane)))	therefore e will be equal to Jane , not (Jane)
е	`Jane	
f	'((Bob) Jane)	

Evaluate the following expressions and write your answer in the appropriate space. If the expression cannot be evaluated, write "Cannot be evaluated".

(first a)	Cannot be evaluated.	
(first b)	()'	
(first c)	`Bob	
(first d)	'((Bob) (Jane))	
(first e)	Cannot be evaluated.	
(rest f)	'(Jane)	
(rest c)	`((Jane))	
(rest d)	()'	
(rest e)	Cannot be evaluated.	
(cons a c)	`(() Bob (Jane))	
(cons a d)	d) '(() ((Bob) (Jane)))	
(cons a e)	Cannot be evaluated	
(cons f c)	'(((Bob) Jane) Bob (Jane))	
(cons e d)	'(Jane ((Bob) (Jane)))	
(cons a (rest c))	`(() (Jane))	
(cons e (rest f))	'(Jane Jane)	
(cons f (rest a))	Cannot be evaluated	
(cons a (rest b))	(() () ())	
(first (rest f))	`Jane	

(first (rest (first d)))	'(Jane)
(first (rest (cons a f)))	'(Bob)
(rest (rest d))	Cannot be evaluated.
(first (rest f))	`Jane

Section B. Given the following definitions:

Variable	Definition
а	`(5 4 3 2 1)
b	`((5) ((4) (3) 3 ((2))))
С	`(5 (4 (3 (2 (1)))))
x	`(a b c (d) e f)
У	`((5) ((4 3) 2 (1)))

Write an expression that will output the following:

Using	Output should be	What is the expression?
List a	'(4 3 2 1)	(rest a)
	'(3 2 1)	(rest (rest a))
	4	(first (rest a))
List b	'((4) (3) 3 ((2)))	(first (rest b))
	'((3) 3 ((2)))	(rest (first (rest b)))
	'()	(rest (rest (rest (first (rest b))))))
List c	'(4 (3 (2 (1))))	(first (rest c))
	5	(first c)
	'((3 (2 (1))))	(rest (first (rest c)))
List x and y	'(a 5)	(cons (first x) (first y))
	'(b ((4 3) 2 (1)))	(cons (first (rest x)) (rest y))
	'((5) a b c (d) e f)	(cons (first y) x)