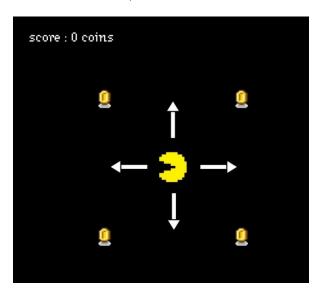
1) Idea

Get-coin game it's looks like a **packman** game, it's very simple you need to move **Right** or **Left** or **Up** or **Down** on **2D** coordinate system and try to get coins as much as, to get a coin you need to be in **coin's** postilion. (you can move like you want, get coins It's up to you :))

Input

A **string** contains that where the coins locate and your current position and the steps you will take it. (use point **2** to know how to write it)



Previewer

2) Description for language

```
<start > → [ Coins Map < Position > ] [ (Start Position ( < Point > , < Point > )) (Steps < Step > )]

< Step > → < Right > | < Left > | < Up > | < Down >

< Right > → R < Right'>

< Right'> → R < Right'> | L < Left'> | U < Up'> | D < Down'> | €

< Left > → L < Left'>

< Left'> → L < Left'> | U < Up'> | D < Down'> | €

< Up > → U < Up'> | D < Down'> | €

< Up > → U < Up'> | D < Down'> | €

< Down > → D < Down'>
```

```
< Down'> → D < Down'> |U < Up'> | L < Left'> | R < Right'> | €
< Position > → ( < Point >, < Point > ) < Position' > | (- < Point >, < Point > ) < Position' > |
( < Point >, - < Point > ) < Position' > | (- < Point >, - < Point > ) < Position' >
< Position' > → , < Position > | €
< Point > → < Id > < Point'>
< Point'> → < Point > | €
< Id > → 0 | 1 | .... | 9

■ U — move from (x,y) to (x,y+1)
■ D — move from (x,y) to (x,y-1)
■ L — move from (x,y) to (x-1,y)
■ R — move from (x,y) to (x+1,y)
```

3) Sample of accepted strings

- [Coins Map (2,4)] [(Start Position (0,0))(Steps RRUUUU)]
- [Coins Map (0,0),(0,2)] [(Start Position (0,1))(Steps LRR)]
- [Coins Map (0, -2)] [(Start Position (0, 0))(Steps DD)]

4) Sample of rejected strings

- Empty string
- Coins Map (2,4)] [(Start Position (0,0))
- Coins Map (0, -2)] [(Start Position (0, 0))(Steps DD)
- UUDD

5) Prototype of interface

C++ graphics

6) Team

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