// EX 1

// Modify the getNextTarget function so that

// if there is a link it behaves as before, but

// if there is no link tag in the input string,

// it outputs [null, 0].

function getNextTarget(page){

start\_link = page.indexOf('<a href=')

if (start\_link == -1){

return [null, 0];

}

start\_quote = page.indexOf('"', start\_link)

end\_quote = page.indexOf('"', start\_quote+1)

url = page.substring(start\_quote+1, end\_quote)

return [url, end\_quote]

}

// console.log(getNextTarget("some string")) => [null, 0]

// console.log(getNextTarget('<div class=" float-left">')) => [null, 0]

// console.log(getNextTarget('<a href="http://www.xkcd.com">')) => ['http://www.xkcd.com', 28]

//EX 2

// Modify the printAllLinks function so that

// it prints all the links available in the page

page = `

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Udacity</title>

</head>

<body>

<h1>ClickSchool</h1>

<p><b>Click School</b> is a private institution of

<a href="http://www.wikipedia.org/wiki/Higher\_education">higher education founded with the goal to provide university-level education that is "both high quality and low cost". It is the outgrowth of a free computer science class offered in 2022 through Stanford University.

<a href="http://www.wikipedia.org/wiki/Digital\_Life\_Design">Digital Life Design</a>

conference.</p>

</body>

</html>

`

function printAllLinks(page){

while (true){

[url, endPos] = getNextTarget(page)

if (url){ // getNextTarget found a url

console.log(url)

page = page.substring(endPos)

} else { // getNextTarget didn't find any url | url = null

break;

}

}

}

// printAllLinks(page)

// prints

// http://www.wikipedia.org/wiki/Higher\_education

// http://www.wikipedia.org/wiki/Digital\_Life\_Design

// EX 3 GOLD STAR

// Define a function,

// printMultiplicationTable,

// that takes as input a positive whole

// number, and prints out a multiplication,

// table showing all the whole number

// multiplications up to and including the

// input number. The order in which the

// equations are printed must match exactly.

// HINT : use nested loops

// printMultiplicationTable(2)

// 1 \* 1 = 1

// 1 \* 2 = 2

// 2 \* 1 = 2

// 2 \* 2 = 4