

## G.Loops exercise

For the array `arr=[1,2,3,4,5,6,7,8,9,10]` , write a ruby program for each of the following using once using `for` ,once using `while` loop and once using `loop`.

A.Print out the array elements

```
  for value in arr do
    p value
  end
```

```
i = 0
while i < arr.length
  p arr[i]
  i+=1
end
```

```
i = 0
loop do
  if i >= arr.length
    break
  end
  p arr[i]
  i+=1
end
```

B.Print out the array elements except 5 and 6

```
for value in arr do
  if value == 5 || value == 6
    break
  else
    p value
  end
end
i = 0
```

```
while i < arr.length
  if l == 5 || l == 6
    break
  else
    p arr[i]
    i+=1
  end
end
```

```
i = 0
loop do
  if i >= arr.length
    break
  end
  if i == 5 || l == 6
    break
  else
    p arr[i]
    i+=1
  end
end
```

C.Print out array elements less than 6

```
for value in arr do
  if value >= 6
    break
  else
    p value
  end
end
```

```
end
i = 0
while i < arr.length
  if l >= 6
    break
  else
    p arr[i]
    i+=1
  end
end
end
```

```
i = 0
loop do
  if i >= 6
    break
  end
```

```
else
  p arr[i]
  i+=1
end
end
```

D.Print out even numbers only

```
for value in arr do
  if value.even?()
    p value
  else
    break
  end
end
```

end

i = 0

while i < arr.length

if arr[i].even?()

  p arr[i]

  i+=1

else

  break

end

i = 0

loop do

  if i >= arr.length

    break

  end

  if arr[i].even()

    p arr[i]

    i+=1

  else

    break

end

E.Print out odd numbers only

for value in arr do

  if value.odd?()

    p value

  else

```
        break
    end
```

```
i = 0
while i < arr.length
    if arr[i].odd?()
        p arr[i]
        i+=1
    else
        break
    end
```

```
i = 0
loop do
    if i >= arr.length
        break
    end
    if arr[i].odd?()
        p arr[i]
        i+=1
    else
        break
    end
end
```

F.Print out numbers from 2 to 9

```
for value in arr do
    if (value >= 2 && value <= 9)
        p value
    end
```

end

i = 0

while i < arr.length

if (arr[i] >= 2 && arr[i] <= 9)

p arr[i]

end

i+=1

end

i = 0

loop do

if i >= arr.length

break

end

if (arr[i] >= 2 && arr[i] <= 9)

p arr[i]

end

i+=1

end

G.Print out each number indicating whether it's even or odd

Ex: 1 odd

2 even

3 odd

4 even ...

for value in arr do

p value.to\_s + (value.even? ? " even" : " odd")

end

i = 0

while i < arr.length

p arr[i].to\_s + (arr[i].even? ? " even" : " odd")

i+=1

end

i = 0

loop do

  if i >= arr.length

    break

  end

  p arr[i].to\_s + (arr[i].even? ? " even" : " odd")

  i+=1

end