Problem 1. Given an array \( A = [3, 9, 1, 7, 0, -5, -2, -6] \), write a Ruby program to print (on separate lines) the numbers in every even index of the array \( A \). Assume that the array indices start from 0.

```ruby
arr = [3, 9, 1, 7, 0, -5, -2, -6]
arr.length.each_with_index do |val, index|
  if index % 2 == 0
    puts "#{val} at index #{index}"  # 10
  end
end
```

Problem 2. Write a Ruby program to represent the following graph using arrays.

```ruby
arr = Array.new
n = 0
while n <= 8
  arr[n] = Array.new
  n += 1
arr[0] << 1 << 2 << 3
arr[1] << 0 << 2 << 3
arr[2] << 0 << 1
arr[3] << 0 << 1
```

Graph:
```
0 -- 1
|   /|
|  / |
| /  |
2 --- 3
```

```
arr[4] << 5
arr[5] << 4 << 6 << 7
arr[6] << 5
arr[7] << 5
```

Graph:
```
0 ---- 4
      |   /|
      |  / |
      | /  |
5 ---- 6
    |   /|
    |  / |
    | /  |
    7--- 3
```