Lab 23

```
apiVersion: argoproj.io/v1alpha1

kind: Workflow

metadata:

 generateName: diamond-dag-

 namespace: argo

spec:

 entrypoint: main

 serviceAccountName: training

 templates:

  - name: main

    dag:

     tasks:

      - name: a

        template: task-a

        resources:

         limits:

          cpu: "1000m" # 1000 millicores = 1 CPU

      - name: b

        dependencies: [a]

        template: task-b

        resources:

         limits:

          cpu: "2000m" # 2000 millicores = 2 CPUs

      - name: c

        dependencies: [a]

        template: task-c

        resources:

         limits:
```

```yaml
            cpu: "1000m" # 1000 millicores = 1 CPU
      - name: d
        dependencies: [b, c]
        template: task-d
        resources:
          limits:
            cpu: "1000m" # 1000 millicores = 1 CPU
- name: task-a
  container:
    image: argoproj/argosay:v2
    command: [sh,-c]
    args: ["echo 'a: hello world'"]
- name: task-b
  container:
    image: argoproj/argosay:v2
    command: [sh,-c]
    args: ["echo 'b: hello world'"]
- name: task-c
  container:
    image: argoproj/argosay:v2
    command: [sh,-c]
    args: ["echo 'c: hello world'"]
- name: task-d
  container:
    image: argoproj/argosay:v2
    command: [sh,-c]
    args: ["echo 'd: hello world'"]
```

Try using CLI

```
apiVersion: argoproj.io/v1alpha1

kind: Workflow

metadata:

  generateName: lopsided-requests-

  namespace: argo

spec:

  entrypoint: main

  serviceAccountName: training

  templates:

  - name: main

    dag:

      tasks:

      - name: a

        template: task-a

        resources:

          limits:

            cpu: "100m" # 100 millicores = 0.1 CPU

            memory: "1Mi" # 1 Mebibyte

        retryStrategy:

          limit: 3

          retryPolicy: Always

        duration: "2m" # 2 minutes

      - name: b

        dependencies: [a]

        template: task-b

        resources:

          limits:

            cpu: "8000m" # 8000 millicores = 8 CPUs
```

```yaml
          memory: "100Gi" # 100 Gibibytes

          nvidia.com/gpu: "200m" # 200 millicores = 0.2 GPU

      retryStrategy:

        limit: 1

        retryPolicy: Never

      duration: "1m" # 1 minute
- name: task-a

  container:

    image: argoproj/argosay:v2

    command: [sh,-c]

    args: ["echo 'a: hello world' && sleep 5"]
- name: task-b

  container:

    image: argoproj/argosay:v2

    command: [sh,-c]

    args: ["echo 'b: hello world' && sleep 2"]
```