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Zadanie 1

Strategia Restart

```
Divide number: 1
Divide number: 2
[actorMath-akka.actor.default-dispatcher-7] ERROR akka.actor.typed.Behavior$ - Supervisor RestartSupervisor saw failure: / by zero
java.lang.ArithmeticException: / by zero
    at Z1.MathActorDivide.onMathCommandDivide(MathActorDivide.java:29)
    at akka.actor.typed.javadsl.BuiltReceive.receive(ReceiveBuilder.scala:213)
    at akka.actor.typed.javadsl.BuiltReceive.receiveMessage(ReceiveBuilder.scala:204)
    at akka.actor.typed.javadsl.Receive.receive(Receive.scala:53)
    at akka.actor.typed.javadsl.AbstractBehavior.receive(AbstractBehavior.scala:64)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.InterceptorImpl$$anon$2.apply(InterceptorImpl.scala:57)
    at akka.actor.typed.internal.RestartSupervisor.aroundReceive(Supervision.scala:268)
    at akka.actor.typed.internal.InterceptorImpl.receive(InterceptorImpl.scala:85)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.adapter.ActorAdapter.handleMessage(ActorAdapter.scala:131)
    at akka.actor.typed.internal.adapter.ActorAdapter.aroundReceive(ActorAdapter.scala:107)
    at akka.actor.ActorCell.receiveMessage(ActorCell.scala:579)
    at akka.actor.ActorCell.invoke(ActorCell.scala:547)
    at akka.dispatch.Mailbox.processMailbox(Mailbox.scala:270)
    at akka.dispatch.Mailbox.run(Mailbox.scala:231)
    at akka.dispatch.Mailbox.exec(Mailbox.scala:243)
    at java.base/java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:290)
    at java.base/java.util.concurrent.ForkJoinPool$WorkQueue.topLevelExec(ForkJoinPool.java:1016)
    at java.base/java.util.concurrent.ForkJoinPool.scan(ForkJoinPool.java:1665)
    at java.base/java.util.concurrent.ForkJoinPool.runWorker(ForkJoinPool.java:1598)
    at java.base/java.util.concurrent.ForkJoinWorkerThread.run(ForkJoinWorkerThread.java:177)
Z1 main: sending second package of messages
Multiply number: 3
Multiply number: 4
Divide number: 3
```

```
Divide number: 3
Z1 main: messages send
Divide number: 4
```

Strategia Stop

```
Z1 main: sending second package of messages
Multiply number: 3
Multiply number: 4
Z1 main: messages send
[actorMath-akka.actor.default-dispatcher-3] INFO akka.actor.LocalActorRef - Message [Z1.MathActor$MathCommandDivide] to Actor[akka://actorMath/user/actorDivide#365824063] was
 not delivered. [1] dead letters encountered. If this is not an expected behavior then Actor[akka://actorMath/user/actorDivide#365824063] may have terminated unexpectedly.
 This logging can be turned off or adjusted with configuration settings 'akka.log-dead-letters' and 'akka.log-dead-letters-during-shutdown'.
[actorMath-akka.actor.default-dispatcher-3] INFO akka.actor.LocalActorRef - Message [Z1.MathActor$MathCommandDivide] to Actor[akka://actorMath/user/actorDivide#365824063] was
 not delivered. [2] dead letters encountered. If this is not an expected behavior then Actor[akka://actorMath/user/actorDivide#365824063] may have terminated unexpectedly.
 This logging can be turned off or adjusted with configuration settings 'akka.log-dead-letters' and 'akka.log-dead-letters-during-shutdown'.
```

Strategia Resume

```
    at java.base/java.util.concurrent.ForkJoinTask.doExec(ForkJoinTask.java:290)
    at java.base/java.util.concurrent.ForkJoinPool$WorkQueue.topLevelExec(ForkJoinPool.java:1016)
    at java.base/java.util.concurrent.ForkJoinPool.scan(ForkJoinPool.java:1665)
    at java.base/java.util.concurrent.ForkJoinPool.runWorker(ForkJoinPool.java:1598)
    at java.base/java.util.concurrent.ForkJoinWorkerThread.run(ForkJoinWorkerThread.java:177)
Z1 main: sending second package of messages
Multiply number: 3
Multiply number: 4
Z1 main: messages send
Divide number: 3
Divide number: 4
```

Zadanie 2

a) Output Z2_Main

```
akka://z2main/user/upper1 registered
akka://z2main/user/upper2 registered
creating receive for text service
request: hello
sending to worker: Actor[akka://z2main/user/upper1#-1993881613]
sending to worker: Actor[akka://z2main/user/upper2#-1629089567]
HELLO
HELLO
```

b) Output Z2_Node_A

```
[ClusterSystem-akka.actor.default-dispatcher-3] IN
   JOINING, roles [dc-default], version [0.0.0]
[ClusterSystem-akka.actor.default-dispatcher-12] ]
   [akka://ClusterSystem@127.0.0.1:2552] to [Up]
HELLO
HELLO
```

c) Output Z2_Node_B

```
 .1:2551]
creating receive for text service
Z2.ActorTextService$ListingResponse@689c9171
2
request: hello
Workers: 2
sending to worker: Actor[akka://ClusterSystem@127.0.0.1:2551/user/upper1#-143897515]
sending to worker: Actor[akka://ClusterSystem@127.0.0.1:2551/user/upper2#2077517376]
```