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#CAT practical with catR
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```
#simulating an item bank:
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```
Bank <- createItemBank(items = 500, model = "2PL", thMin = -4, thMax = 4, step = 0.04)
```

```
#Define starting rules
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```
Start <- list(seed=1284, nrItems = 3, startSelect = "MFI")
```

```
#Define test algorithm:
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```
Test <- list(method = "BM", priorDist="unif", priorPar=c(-5,5), itemSelect = "MFI", range=c(-5,5))
```

```
#Define stopping rule
```

```
Stop <- list(rule = "precision", thr = 0.316)
```

```
#Define final estimation:
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```
Final <- list(method = "WL", alpha = 0.05, range=c(-5,5))
```

```
#Run test and plot results
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```
res <- randomCAT(trueTheta = -1.5, maxItems=50, itemBank = Bank, start = Start, test = Test, stop = Stop, final = Final)
```

```
plot(res, ci = TRUE, trueTh = TRUE, classThr = 2)
```