```
data {
       int<lower=0> N;
       real x[N];
     parameters {
       real<lower=0> alpha;
       real<lower=0> theta;
 8
     model {
10
       real lpa[N];
11
12
       theta \sim gamma(1, 3);
13
       alpha \sim gamma(1, 3);
14
       for (i in 1:N) {
15
16
         lpa[i] = pareto lpdf(x[i] | theta, alpha);
17
18
19
       target += sum(lpa);
20
```