```
likelyWeight<-function(alpha, zValue, bitsArr) {</pre>
  fb <- 0
  for (index in 1:length(bitsArr)){
   fb <- fb + bitsArr[index] * (2 ** (index - 1))</pre>
 prob = (1-alpha) / (1+alpha) * (alpha ** abs(zValue - fb))
 return (prob)
approInfer<-function(samplesize, bitNum, i, alpha, Zvalue){</pre>
  gene <- c(0,1)
  numerator <- 0
  denominator <- 0
  for (count in 1:samplesize) {
    bitSet <- integer(bitNum)</pre>
    for(index in 1:bitNum){
     bitSet[index]<-sample(gene,1,replace=TRUE)</pre>
    pro = likelyWeight(alpha, Zvalue, bitSet)
    denominator <- denominator + pro
    if(bitSet[i] == 1){
     numerator <- numerator + pro
  return (numerator/denominator)
sampleNum <- seq(10000,500000,by=10000)</pre>
probValueSet <- integer(50)</pre>
for (currsize in 0:50){
 probValueSet[currsize] <- approInfer(currsize * 10000, 10, 10, 0.1, 128)</pre>
 print(currsize * 10000)
plot(sampleNum, probValueSet,type='l')
```