**# Zopa Technical Test**  
  
There is a need for a rate calculation system allowing prospective borrowers to  
obtain a quote from our pool of lenders for 36 month loans. This system will   
take the form of a command-line application.  
  
You will be provided with a file containing a list of all the offers being made  
by the lenders within the system in CSV format, see the example market.csv file  
provided alongside this specification.  
  
You should strive to provide as low a rate to the borrower as is possible to  
ensure that Zopa's quotes are as competitive as they can be against our  
competitors'. You should also provide the borrower with the details of the  
monthly repayment amount and the total repayment amount.  
  
Repayment amounts should be displayed to 2 decimal places and the rate of the   
loan should be displayed to one decimal place.  
  
Borrowers should be able to request a loan of any £100 increment between £1000  
and £15000 inclusive. If the market does not have sufficient offers from  
lenders to satisfy the loan then the system should inform the borrower that it  
is not possible to provide a quote at that time.  
  
**The application should take arguments in the form:**  
  
 cmd> [application] [market\_file] [loan\_amount]  
  
**Example:**  
  
 cmd> quote.exe market.csv 1500  
  
**The application should produce output in the form**:  
  
 cmd> [application] [market\_file] [loan\_amount]  
 Requested amount: £XXXX  
 Rate: X.X%  
 Monthly repayment: £XXXX.XX  
 Total repayment: £XXXX.XX  
  
**Example**:  
  
 cmd> quote.exe market.csv 1000  
 Requested amount: £1000  
 Rate: 7.0%  
 Monthly repayment: £30.78  
 Total repayment: £1108.10  
 **## Remarks**  
   
 \* We do not mind what language you chose for your implementation  
 \* The monthly and total repayment should use monthly compounding interest  
 \* We will review your code and run it against some other test cases to see how  
 it handles them  
 \* If you have any questions then don't hesitate to contact us