Complete the Python script below that asks the user to enter a number and prints the name of the sequence in dna2.fasta with length closest to that number (10 pts). For example if dna.txt contains

```
>human
ACACCGGTACCAG
>mouse
ACCAGAGGGGGGTTTTAAACCACAGCG
>cat
AGTGTATGA
>dog
GTA
```

and the user entered 5 then the program should print >**dog** because its sequence has length closest to 5. If the user enters 9 then the program should print >**cat** because the >**cat** sequence has length exactly 9. Your program should work for any set of sequences in dna.fasta and not just for the example provided.

```
userlength = input("Please enter sequence length ")
```