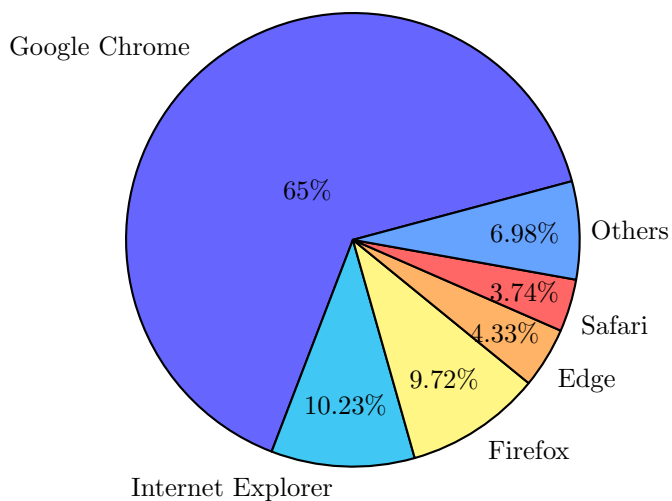


Test Problem1

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The usage share of web browsers is the proportion, often expressed as a percentage, of visitors to a group of web sites who use a particular web browser. Following pie chart shows the percentage of the users who use different web browsers. The data is collected from <https://netmarketshare.com/>



Algorithm 1: Euclids algorithm for finding the greatest common di- visor of two nonnegative integers

```
1 function Euclid ( $a, b$ )  
  Input :Two nonnegative integers a and b  
  Output :gcd( $a, b$ )  
2 if  $b=0$  then  
3   | return a  
4 else  
5   | return Euclid( $b, a \bmod b$ )
```

The Euclidean algorithm, also called Euclids algorithm, is an algorithm for finding the greatest common divisor of two numbers a and b. The algorithm

Algorithm 1: Euclids algorithm for finding the greatest common divisor of two nonnegative integers

Input : a, b, c, d
Output : e, r
1 Calculate x and y
2 if $k \geq n$ then m_2
3
4 if $h \geq j$ then m_1
5
6 else
7 | **repeat**
8 | | Initialisation: $g(0) = nj$
9 | | $i = 0$
10 | | Compute n_2

$$n(i) = \frac{a}{\sqrt{3v}}$$

11 | | Update b n_2

$$b(i+1) = -\frac{1}{2(g(i)) + 1}$$

can also be defined for more general rings than just the integers \mathbb{Z} . There are even principal rings which are not Euclidean but where the equivalent of the Euclidean algorithm can be defined. The algorithm for rational numbers was given in Book VII of Euclids Elements. The algorithm for reals appeared in Book X, making it the earliest example of an integer relation algorithm. The **Algorithm2** should have to be referred here.