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R programming

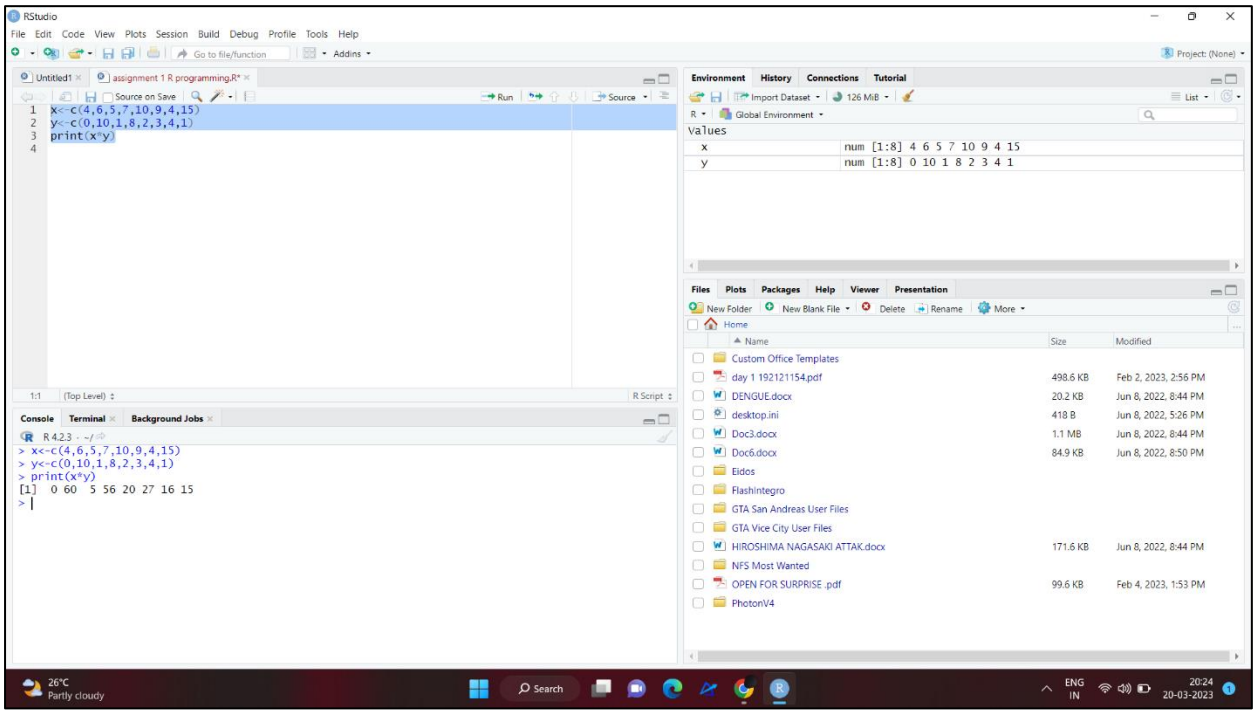
Assignment 1

1. Consider two vectors, x, y x=c(4,6,5,7,10,9,4,15) y=c(0,10,1,8,2,3,4,1) What is the value of:

x*y

2Consider two vectors, a, b

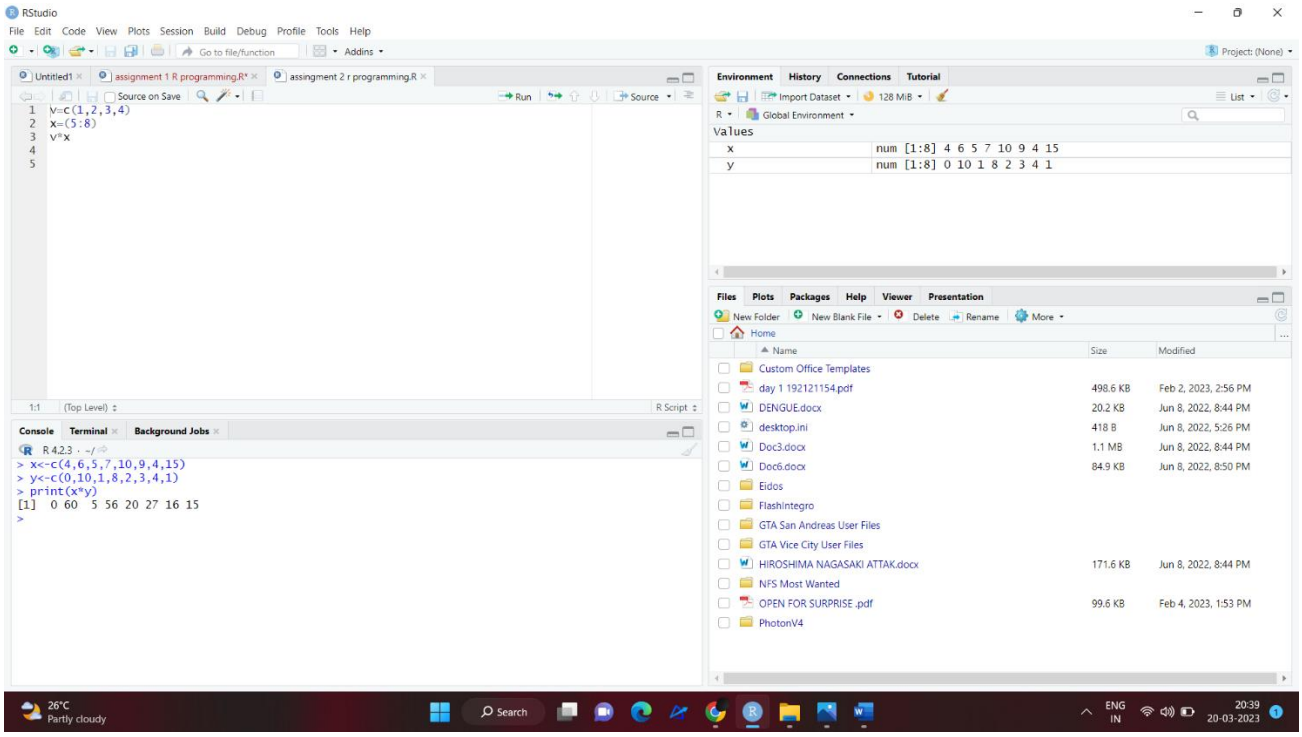
a=c (1,2,4,5,6) b=c(3,2,4,1,9) What is the value of: cbind(a,b)



OUTPUT :

```
> x<-c(4,6,5,7,10,9,4,15)
> y<-c(0,10,1,8,2,3,4,1)
> print(x*y)
[1]  0 60  5 56 20 27 16 15
```

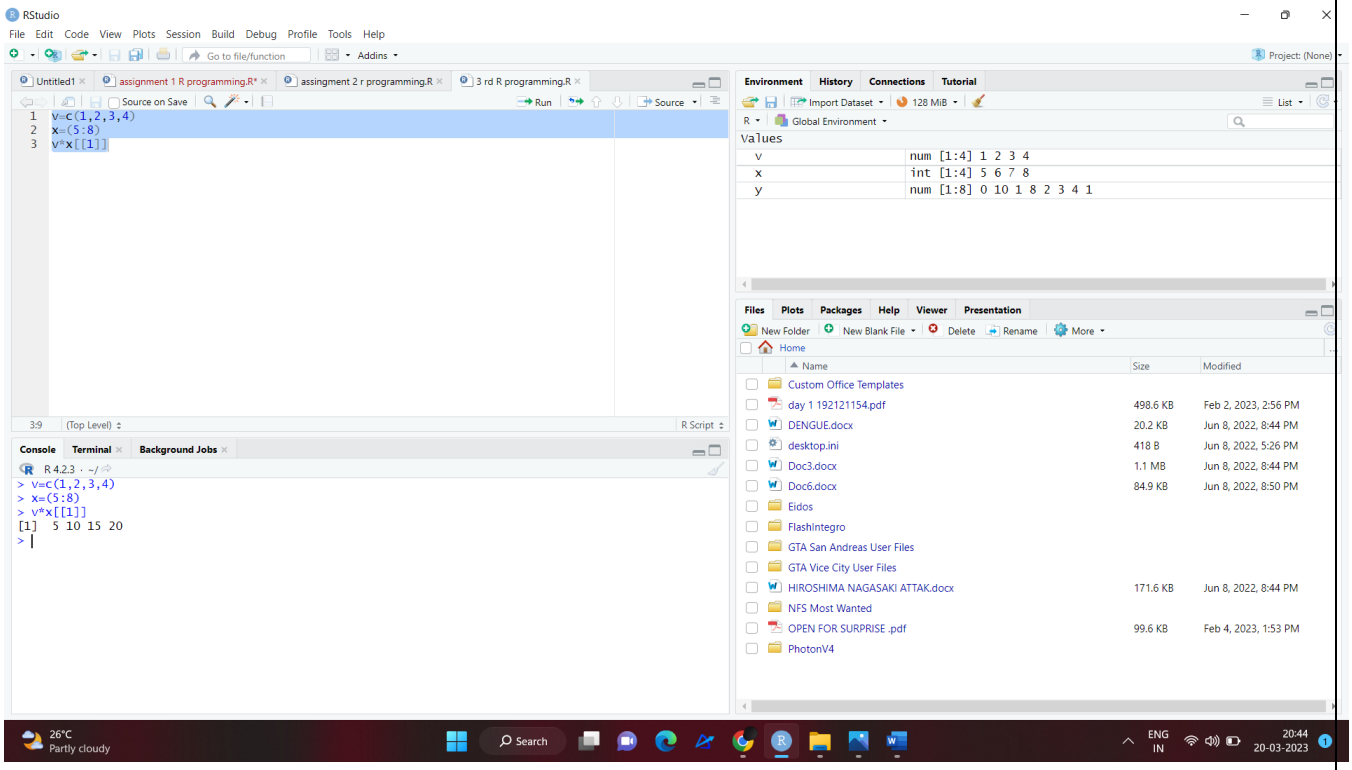
2. Vector v is c(1,2,3,4) and list x is list(5:8), what is the output of v*x[1]?



OUTPUT:

```
> v=c(1,2,3,4)
> x=(5:8)
> v*x
[1]  5 12 21 32
```

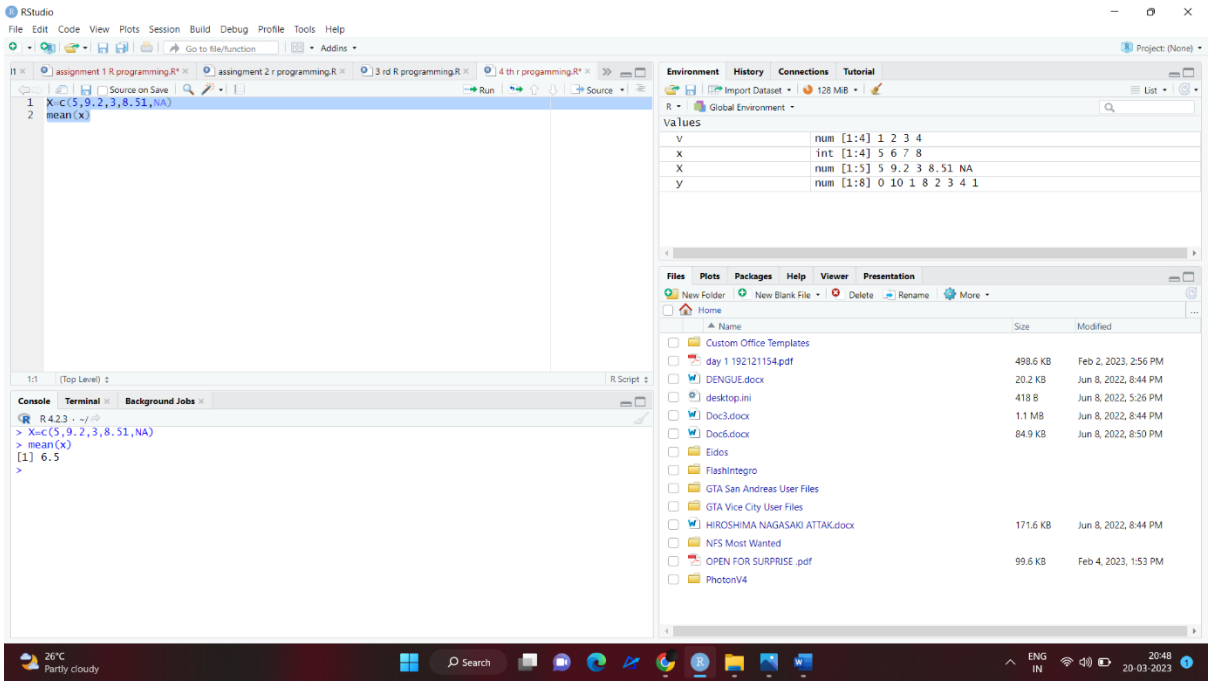
3. Vector v is c(1,2,3,4) and list x is list(5:8), what is the output of v*x[[1]]?



OUTPUT:

```
> v=c(1,2,3,4)
> x=(5:8)
> v*x[[1]]
[1]  5 10 15 20
```

4. X is the vector c(5,9.2,3,8.51,NA), What is the output of mean(x)?

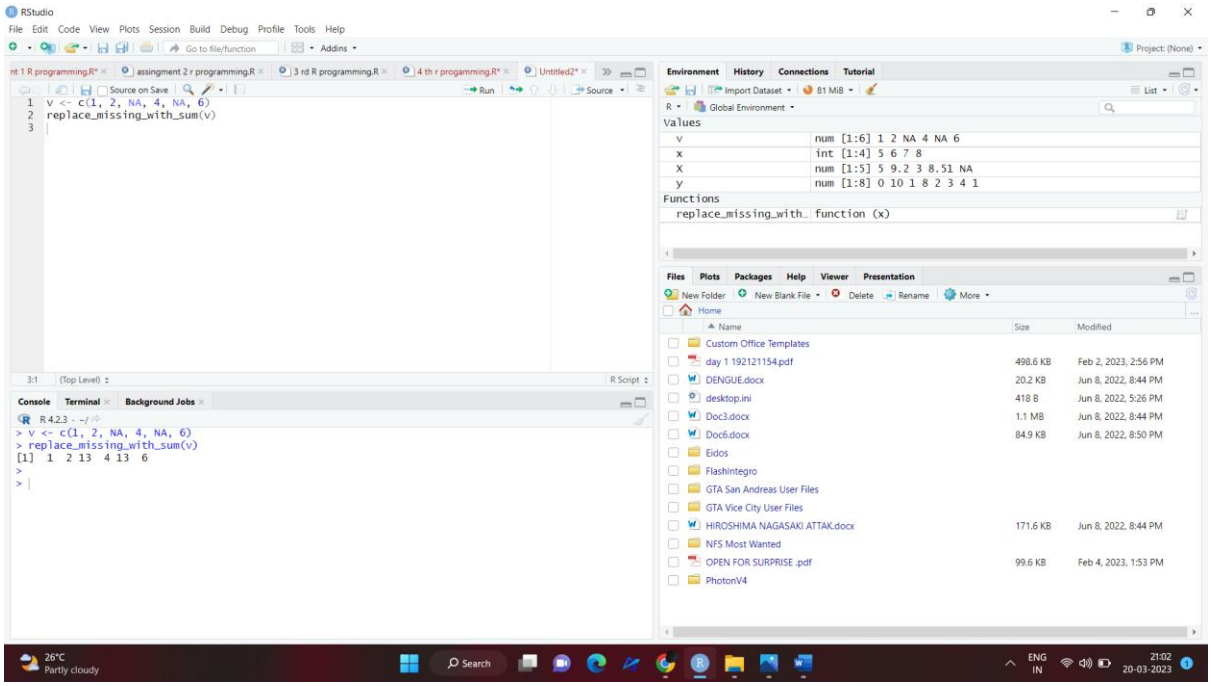


OUTPUT:

```
> X=c(5,9.2,3,8.51,NA)
> mean(x)
[1] 6.5
```

5. Give a function in R that replaces all missing values of a vector x with the sum of elements

of that vector?



OUTPUT:

```
> v <- c(1, 2, NA, 4, NA, 6)
> replace_missing_with_sum(v)
[1]  1  2 13  4 13  6
>
```