**1.** Write a R program to take input from the user (name and age) and display the values. Also print the version of R installation.

name = readline(prompt="Input your name: ")

age = readline(prompt="Input your age: ")

print(paste("My name is",name, "and I am",age ,"years old."))

print(R.version.string)

output:

Input your name:

Input your age:

[1] "My name is and I am years old."

[1] "R version 3.4.4 (2018-03-15)"

2. Write a R program to get the details of the objects in memory

name = "Python";

n1 = 10;

n2 = 0.5

nums = c(10, 20, 30, 40, 50, 60)

print(ls())

print("Details of the objects in memory:")

print(ls.str())

output:

[1] "n1" "n2" "name" "nums"

[1] "Details of the objects in memory:"

n1 : num 10

n2 : num 0.5

name : chr "Python"

nums : num [1:6] 10 20 30 40 50 60

**3.** Write a R program to create a sequence of numbers from 20 to 50 and find the mean of numbers from 20 to 60 and sum of numbers from 51 to 91.

print("Sequence of numbers from 20 to 50:")

print(seq(20,50))

print("Mean of numbers from 20 to 60:")

print(mean(20:60))

print("Sum of numbers from 51 to 91:")

print(sum(51:91))

output:

[1] "Sequence of numbers from 20 to 50:"

[1] 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

[26] 45 46 47 48 49 50

[1] "Mean of numbers from 20 to 60:"

[1] 40

[1] "Sum of numbers from 51 to 91:"

[1] 2911

4. Write a R program to create a vector which contains 10 random integer values between -50 and +50

**R Programming Code :**

v = sample(-50:50, 10, replace=TRUE)

print("Content of the vector:")

print("10 random integer values between -50 and +50:")

print(v)

Copy

Sample Output:

[1] "Content of the vector:"

[1] "10 random integer values between -50 and +50:"

[1] 31 -13 -21 42 49 -39 20 12 39 -2

5. Write a R program to get the first 10 Fibonacci numbers.

**R Programming Code :**

Fibonacci <- numeric(10)

Fibonacci[1] <- Fibonacci[2] <- 1

for (i in 3:10) Fibonacci[i] <- Fibonacci[i - 2] + Fibonacci[i - 1]

print("First 10 Fibonacci numbers:")

print(Fibonacci)

Copy

Sample Output:

[1] "First 10 Fibonacci numbers:"

[1] 1 1 2 3 5 8 13 21 34 55

6. Write a R program to get all prime numbers up to a given number (based on the sieve of Eratosthenes).

**R Programming Code :**

prime\_numbers <- function(n) {

if (n >= 2) {

x = seq(2, n)

prime\_nums = c()

for (i in seq(2, n)) {

if (any(x == i)) {

prime\_nums = c(prime\_nums, i)

x = c(x[(x %% i) != 0], i)

}

}

return(prime\_nums)

}

else

{

stop("Input number should be at least 2.")

}

}

prime\_numbers(12)

Copy

Sample Output:

[1] 2 3 5 7 11

7. Write a R program to print the numbers from 1 to 100 and print "Fizz" for multiples of 3, print "Buzz" for multiples of 5, and print "FizzBuzz" for multiples of both.

**R Programming Code :**

for (n in 1:100) {

if (n %% 3 == 0 & n %% 5 == 0) {print("FizzBuzz")}

else if (n %% 3 == 0) {print("Fizz")}

else if (n %% 5 == 0) {print("Buzz")}

else print(n)

}

Copy

Sample Output:

[1] 1

[1] 2

[1] "Fizz"

[1] 4

[1] "Buzz"

[1] "Fizz"

[1] 7

[1] 8

[1] "Fizz"

[1] "Buzz"

[1] 11

[1] "Fizz"

[1] 13

[1] 14

[1] "FizzBuzz"

[1] 16

[1] 17

[1] "Fizz"

[1] 19

[1] "Buzz"

[1] "Fizz"

[1] 22

[1] 23

[1] "Fizz"

[1] "Buzz"

[1] 26

[1] "Fizz"

[1] 28

[1] 29

[1] "FizzBuzz"

[1] 31

[1] 32

[1] "Fizz"

[1] 34

[1] "Buzz"

[1] "Fizz"

[1] 37

[1] 38

[1] "Fizz"

[1] "Buzz"

[1] 41

[1] "Fizz"

[1] 43

[1] 44

[1] "FizzBuzz"

[1] 46

[1] 47

[1] "Fizz"

[1] 49

[1] "Buzz"

[1] "Fizz"

[1] 52

[1] 53

[1] "Fizz"

[1] "Buzz"

[1] 56

[1] "Fizz"

[1] 58

[1] 59

[1] "FizzBuzz"

[1] 61

[1] 62

[1] "Fizz"

[1] 64

[1] "Buzz"

[1] "Fizz"

[1] 67

[1] 68

[1] "Fizz"

[1] "Buzz"

[1] 71

[1] "Fizz"

[1] 73

[1] 74

[1] "FizzBuzz"

[1] 76

[1] 77

[1] "Fizz"

[1] 79

[1] "Buzz"

[1] "Fizz"

[1] 82

[1] 83

[1] "Fizz"

[1] "Buzz"

[1] 86

[1] "Fizz"

[1] 88

[1] 89

[1] "FizzBuzz"

[1] 91

[1] 92

[1] "Fizz"

[1] 94

[1] "Buzz"

[1] "Fizz"

[1] 97

[1] 98

[1] "Fizz"

[1] "Buzz"

8. Write a R program to extract first 10 english letter in lower case and last 10 letters in upper case and extract letters between 22nd to 24th letters in upper case.

**R Programming Code :**

print("First 10 letters in lower case:")

t = head(letters, 10)

print(t)

print("Last 10 letters in upper case:")

t = tail(LETTERS, 10)

print(t)

print("Letters between 22nd to 24th letters in upper case:")

e = tail(LETTERS[22:24])

print(e)

Copy

Sample Output:

[1] "First 10 letters in lower case:"

[1] "a" "b" "c" "d" "e" "f" "g" "h" "i" "j"

[1] "Last 10 letters in upper case:"

[1] "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"

[1] "Letters between 22nd to 24th letters in upper case:"

[1] "V" "W" "X"

9. Write a R program to find the factors of a given number.

**R Programming Code :**

print\_factors = function(n) {

print(paste("The factors of",n,"are:"))

for(i in 1:n) {

if((n %% i) == 0) {

print(i)

}

}

}

print\_factors(4)

print\_factors(7)

print\_factors(12)

Copy

Sample Output:

[1] "The factors of 4 are:"

[1] 1

[1] 2

[1] 4

[1] "The factors of 7 are:"

[1] 1

[1] 7

[1] "The factors of 12 are:"

[1] 1

[1] 2

[1] 3

[1] 4

[1] 6

[1] 12

10. Write a R program to find the maximum and the minimum value of a given vector.

**R Programming Code :**

nums = c(10, 20, 30, 40, 50, 60)

print('Original vector:')

print(nums)

print(paste("Maximum value of the said vector:",max(nums)))

print(paste("Minimum value of the said vector:",min(nums)))

Copy

Sample Output:

[1] "Original vector:"

[1] 10 20 30 40 50 60

[1] "Maximum value of the said vector: 60"

[1] "Minimum value of the said vector: 10"

11. Write a R program to get the unique elements of a given string and unique numbers of vector.

**R Programming Code :**

str1 = "The quick brown fox jumps over the lazy dog."

print("Original vector(string)")

print(str1)

print("Unique elements of the said vector:")

print(unique(tolower(str1)))

nums = c(1, 2, 2, 3, 4, 4, 5, 6)

print("Original vector(number)")

print(nums)

print("Unique elements of the said vector:")

print(unique(nums))

Copy

Sample Output:

[1] "Original vector(string)"

[1] "The quick brown fox jumps over the lazy dog."

[1] "Unique elements of the said vector:"

[1] "the quick brown fox jumps over the lazy dog."

[1] "Original vector(number)"

[1] 1 2 2 3 4 4 5 6

[1] "Unique elements of the said vector:"

[1] 1 2 3 4 5 6

12. Write a R program to create three vectors a,b,c with 3 integers. Combine the three vectors to become a 3×3 matrix where each column represents a vector. Print the content of the matrix.

a<-c(1,2,3)

b<-c(4,5,6)

c<-c(7,8,9)

m<-cbind(a,b,c)

print("Content of the said matrix:")

print(m)

Copy

Sample Output:

[1] "Content of the said matrix:"

a b c

[1,] 1 4 7

[2,] 2 5 8

[3,] 3 6 9

13. Write a R program to create a list of random numbers in normal distribution and count occurrences of each value.

n = floor(rnorm(1000, 50, 100))

print('List of random numbers in normal distribution:')

print(n)

t = table(n)

print("Count occurrences of each value:")

print(t)

Sample Output:

[1] "List of random numbers in normal distribution:"

[1] 70 -5 88 -110 174 -66 10 8 106 35 -48 -54 12 102

[15] 67 -34 83 -75 71 35 24 109 -3 9 221 231 105 105

[29] -58 43 -39 65 40 78 181 57 60 103 262 232 -77 31

[43] 47 -50 174 67 41 92 243 -88 11 197 -117 126 -99 82

[57] -76 245 27 -35 -79 -14 -278 -6 -3 79 229 -15 -11 52

[71] 127 -14 150 42 184 -45 -37 87 11 146 124 158 113 166

[85] -11 47 -23 -99 63 -7 0 -2 30 -146 141 29 73 114

[99] -16 -14 116 -80 -29 22 352 -60 126 12 287 23 -7 149

[113] 11 40 65 239 94 119 76 47 159 -75 103 91 88 51

[127] 115 51 -170 224 144 133 272 -229 125 -32 39 8 62 105

[141] 21 -70 51 31 223 31 -71 105 -73 -48 -50 117 208 229

[155] 97 134 113 76 -137 -17 -160 -8 -30 53 161 -90 155 -9

[169] 118 -83 101 91 201 146 18 -4 77 -76 142 141 43 95

[183] -56 55 -43 -151 68 51 180 142 53 -27 59 99 39 49

[197] 4 14 201 55 159 -141 161 -113 -46 108 139 143 104 7

[211] -34 21 290 -53 117 245 -44 75 -89 -45 -19 -75 64 205

[225] 27 22 18 99 -13 -25 33 16 281 -169 224 207 124 167

[239] 113 81 42 74 59 -40 155 -40 112 -27 3 60 2 82

[253] 158 78 117 -55 172 6 149 209 -52 -88 62 158 71 34

[267] 146 179 22 92 187 178 -3 119 -25 165 -27 10 58 -25

[281] -37 155 -47 27 -44 -57 57 8 -89 142 52 -19 -116 -80

[295] -55 71 239 187 -55 53 -115 -132 95 21 -48 34 72 -8

[309] 71 70 93 -190 192 189 -72 -19 37 164 -91 30 -109 -79

[323] 11 164 277 -89 156 279 -25 11 78 27 2 16 -34 51

[337] 21 -124 51 -107 51 19 331 77 2 144 103 -13 77 -52

[351] -9 33 54 56 108 204 -24 -5 109 -20 35 -25 61 -20

[365] -33 172 -98 39 131 -72 2 47 168 46 -8 215 -126 154

[379] 167 17 128 185 95 12 -14 -49 -78 246 11 15 -214 -160

[393] 265 -134 61 -54 -38 -26 156 25 41 108 114 72 -45 -29

[407] 178 55 65 88 44 1 -141 136 152 50 74 229 132 -3

[421] 70 -7 115 101 -53 -42 75 -159 8 118 -48 115 38 -17

[435] 121 -170 189 126 53 -10 119 -50 98 -20 161 -48 24 -54

[449] -47 -101 121 33 179 319 26 80 -61 -77 19 186 129 185

[463] 338 -46 102 -303 98 230 109 -74 -37 78 -58 212 82 57

[477] 186 154 76 6 -111 -119 -23 24 25 148 -39 -49 -36 175

[491] 139 46 138 5 -113 86 -89 301 118 -66 102 207 57 165

[505] 18 63 105 67 87 -90 -77 -81 197 286 -169 22 28 60

[519] 58 27 47 49 162 87 -88 189 -63 57 126 -30 70 83

[533] -79 -160 -110 3 -17 141 164 60 -54 24 -96 120 242 -17

[547] 181 -64 147 47 3 62 -195 -148 246 145 98 -50 -42 -24

[561] 94 159 10 211 -129 115 -111 127 -9 -80 -83 108 121 13

[575] 13 -120 20 46 -91 41 -54 36 -39 245 -6 7 264 67

[589] -18 13 0 -76 195 125 102 -43 23 97 -107 89 49 56

[603] 65 -98 94 111 241 -29 262 17 80 50 -32 100 182 201

[617] 115 259 52 181 121 93 192 126 96 -126 263 130 -194 14

[631] 16 173 87 -39 172 126 160 91 185 192 99 152 3 -107

[645] 46 -88 98 -80 98 209 -129 58 16 206 76 119 116 329

[659] 162 -14 195 -13 238 199 208 -82 99 62 74 165 187 111

[673] 3 60 60 -19 -35 176 -94 4 244 47 130 -2 34 175

[687] 53 14 14 29 171 136 -21 217 87 117 80 -4 -23 197

[701] 113 267 4 -76 12 7 42 242 63 61 41 -29 77 243

[715] 124 -78 -43 58 67 73 3 70 97 49 140 -104 166 -34

[729] -58 142 -50 113 46 126 119 60 28 223 64 164 71 -76

[743] 93 21 -23 166 6 26 -4 66 83 61 75 45 134 23

[757] 62 117 -14 218 36 41 -73 42 196 53 52 -21 19 -74

[771] -31 47 45 -36 53 -63 173 41 133 -77 222 200 158 202

[785] -4 272 101 192 167 74 133 85 -84 -42 108 147 -82 46

[799] -90 111 163 -74 20 22 1 -73 238 85 112 41 36 52

[813] 39 2 21 -104 155 -161 199 -149 20 109 111 81 -137 53

[827] 212 -51 -15 116 -3 119 71 110 -35 98 -88 0 -34 93

[841] 39 -65 125 13 142 -29 -153 -32 -19 22 176 -248 136 155

[855] -10 15 30 17 76 214 170 61 -98 108 -7 100 37 93

[869] 1 -12 -35 154 200 100 -4 168 162 6 198 164 -45 -56

[883] 106 84 162 163 66 -9 93 43 195 56 -16 76 57 236

[897] 85 106 -72 70 -170 166 -57 110 -17 77 314 -225 134 -140

[911] 95 134 -3 67 236 -23 162 -13 47 232 -74 -15 164 -100

[925] 80 20 -72 33 192 159 87 170 95 -33 154 -21 139 156

[939] -74 138 136 41 73 88 253 129 -12 24 22 -13 15 52

[953] 58 -39 85 67 -28 7 38 -40 170 95 -4 89 131 55

[967] 78 60 -43 81 -54 -78 32 33 -36 215 -64 58 18 -87

[981] 163 74 288 -44 17 -122 143 116 192 29 144 6 180 -124

[995] 167 -62 53 -30 62 158

[1] "Count occurrences of each value:"

n

-303 -278 -248 -229 -225 -214 -195 -194 -190 -170 -169 -161 -160 -159 -153 -151

1 1 1 1 1 1 1 1 1 3 2 1 3 1 1 1

-149 -148 -146 -141 -140 -137 -134 -132 -129 -126 -124 -122 -120 -119 -117 -116

1 1 1 2 1 2 1 1 2 2 2 1 1 1 1 1

-115 -113 -111 -110 -109 -107 -104 -101 -100 -99 -98 -96 -94 -91 -90 -89

1 2 2 2 1 3 2 1 1 2 3 1 1 2 3 4

-88 -87 -84 -83 -82 -81 -80 -79 -78 -77 -76 -75 -74 -73 -72 -71

5 1 1 2 2 1 4 3 3 4 5 3 5 3 4 1

-70 -66 -65 -64 -63 -62 -61 -60 -58 -57 -56 -55 -54 -53 -52 -51

1 2 1 2 2 1 1 1 3 2 2 3 6 2 2 1

-50 -49 -48 -47 -46 -45 -44 -43 -42 -40 -39 -38 -37 -36 -35 -34

5 2 5 2 2 4 3 4 3 3 5 1 3 3 4 5

-33 -32 -31 -30 -29 -28 -27 -26 -25 -24 -23 -21 -20 -19 -18 -17

2 3 1 3 5 1 3 1 5 2 5 3 3 5 1 5

-16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 0

2 3 6 5 2 2 2 4 3 4 2 2 6 6 2 3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

3 5 6 3 1 5 4 4 1 3 6 4 4 4 3 4

17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

4 4 3 4 6 7 3 5 2 2 5 2 3 3 3 1

33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 49

5 3 3 3 2 2 5 2 8 4 3 1 2 6 9 4

50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65

2 7 6 9 1 4 3 6 6 2 8 5 6 3 2 4

66 67 68 70 71 72 73 74 75 76 77 78 79 80 81 82

2 7 1 6 6 2 3 5 3 6 5 5 1 4 3 3

83 84 85 86 87 88 89 91 92 93 94 95 96 97 98 99

3 1 4 1 6 4 2 3 2 6 3 6 1 3 6 4

100 101 102 103 104 105 106 108 109 110 111 112 113 114 115 116

3 3 4 3 1 5 3 6 4 2 4 2 5 2 5 4

117 118 119 120 121 124 125 126 127 128 129 130 131 132 133 134

5 3 6 1 4 3 3 7 2 1 2 2 2 1 3 4

136 138 139 140 141 142 143 144 145 146 147 148 149 150 152 154

4 2 3 1 3 5 2 3 1 3 2 1 2 1 2 4

155 156 158 159 160 161 162 163 164 165 166 167 168 170 171 172

5 3 5 4 1 3 5 3 6 3 4 4 2 3 1 3

173 174 175 176 178 179 180 181 182 184 185 186 187 189 192 195

2 2 2 2 2 2 2 3 1 1 3 2 3 3 6 3

196 197 198 199 200 201 202 204 205 206 207 208 209 211 212 214

1 3 1 2 2 3 1 1 1 1 2 2 2 1 2 1

215 217 218 221 222 223 224 229 230 231 232 236 238 239 241 242

2 1 1 1 1 2 2 3 1 1 2 2 2 2 1 2

243 244 245 246 253 259 262 263 264 265 267 272 277 279 281 286

2 1 3 2 1 1 2 1 1 1 1 2 1 1 1 1

287 288 290 301 314 319 329 331 338 352

1 1 1 1 1 1 1 1 1 1

14. Write a R program to read the .csv file and display the content.

**Sample movies.csv**

adult,belongs\_to\_collection,budget,genres,homepage,id,imdb\_id,original\_language,original\_title,overview,popularity,poster\_path,production\_companies,production\_countries,release\_date,revenue,runtime,spoken\_languages,status,tagline,title,video,vote\_average,vote\_count

False,"{'id': 10194, 'name': 'Toy Story Collection', 'poster\_path': '/7G9915LfUQ2lVfwMEEhDsn3kT4B.jpg', 'backdrop\_path': '/9FBwqcd9IRruEDUrTdcaafOMKUq.jpg'}",30000000,"[{'id': 16, 'name': 'Animation'}, {'id': 35, 'name': 'Comedy'}, {'id': 10751, 'name': 'Family'}]",http://toystory.disney.com/toy-story,862,tt0114709,en,Toy Story,"Led by Woody, Andy's toys live happily in his room until Andy's birthday brings Buzz Lightyear onto the scene. Afraid of losing his place in Andy's heart, Woody plots against Buzz. But when circumstances separate Buzz and Woody from their owner, the duo eventually learns to put aside their differences.",21.946943,/rhIRbceoE9lR4veEXuwCC2wARtG.jpg,"[{'name': 'Pixar Animation Studios', 'id': 3}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-30,373554033,81.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,,Toy Story,False,7.7,5415

False,,65000000,"[{'id': 12, 'name': 'Adventure'}, {'id': 14, 'name': 'Fantasy'}, {'id': 10751, 'name': 'Family'}]",,8844,tt0113497,en,Jumanji,"When siblings Judy and Peter discover an enchanted board game that opens the door to a magical world, they unwittingly invite Alan -- an adult who's been trapped inside the game for 26 years -- into their living room. Alan's only hope for freedom is to finish the game, which proves risky as all three find themselves running from giant rhinoceroses, evil monkeys and other terrifying creatures.",17.015539,/vzmL6fP7aPKNKPRTFnZmiUfciyV.jpg,"[{'name': 'TriStar Pictures', 'id': 559}, {'name': 'Teitler Film', 'id': 2550}, {'name': 'Interscope Communications', 'id': 10201}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-15,262797249,104.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'fr', 'name': 'Français'}]",Released,Roll the dice and unleash the excitement!,Jumanji,False,6.9,2413

False,"{'id': 119050, 'name': 'Grumpy Old Men Collection', 'poster\_path': '/nLvUdqgPgm3F85NMCii9gVFUcet.jpg', 'backdrop\_path': '/hypTnLot2z8wpFS7qwsQHW1uV8u.jpg'}",0,"[{'id': 10749, 'name': 'Romance'}, {'id': 35, 'name': 'Comedy'}]",,15602,tt0113228,en,Grumpier Old Men,"A family wedding reignites the ancient feud between next-door neighbors and fishing buddies John and Max. Meanwhile, a sultry Italian divorcée opens a restaurant at the local bait shop, alarming the locals who worry she'll scare the fish away. But she's less interested in seafood than she is in cooking up a hot time with Max.",11.7129,/6ksm1sjKMFLbO7UY2i6G1ju9SML.jpg,"[{'name': 'Warner Bros.', 'id': 6194}, {'name': 'Lancaster Gate', 'id': 19464}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,0,101.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Still Yelling. Still Fighting. Still Ready for Love.,Grumpier Old Men,False,6.5,92

False,,16000000,"[{'id': 35, 'name': 'Comedy'}, {'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,31357,tt0114885,en,Waiting to Exhale,"Cheated on, mistreated and stepped on, the women are holding their breath, waiting for the elusive ""good man"" to break a string of less-than-stellar lovers. Friends and confidants Vannah, Bernie, Glo and Robin talk it all out, determined to find a better way to breathe.",3.859495,/16XOMpEaLWkrcPqSQqhTmeJuqQl.jpg,"[{'name': 'Twentieth Century Fox Film Corporation', 'id': 306}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,81452156,127.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Friends are the people who let you be yourself... and never let you forget it.,Waiting to Exhale,False,6.1,34

False,"{'id': 96871, 'name': 'Father of the Bride Collection', 'poster\_path': '/nts4iOmNnq7GNicycMJ9pSAn204.jpg', 'backdrop\_path': '/7qwE57OVZmMJChBpLEbJEmzUydk.jpg'}",0,"[{'id': 35, 'name': 'Comedy'}]",,11862,tt0113041,en,Father of the Bride Part II,"Just when George Banks has recovered from his daughter's wedding, he receives the news that she's pregnant ... and that George's wife, Nina, is expecting too. He was planning on selling their home, but that's a plan that -- like George -- will have to change with the arrival of both a grandchild and a kid of his own.",8.387519,/e64sOI48hQXyru7naBFyssKFxVd.jpg,"[{'name': 'Sandollar Productions', 'id': 5842}, {'name': 'Touchstone Pictures', 'id': 9195}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-02-10,76578911,106.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Just When His World Is Back To Normal... He's In For The Surprise Of His Life!,Father of the Bride Part II,False,5.7,173

False,,60000000,"[{'id': 28, 'name': 'Action'}, {'id': 80, 'name': 'Crime'}, {'id': 18, 'name': 'Drama'}, {'id': 53, 'name': 'Thriller'}]",,949,tt0113277,en,Heat,"Obsessive master thief, Neil McCauley leads a top-notch crew on various insane heists throughout Los Angeles while a mentally unstable detective, Vincent Hanna pursues him without rest. Each man recognizes and respects the ability and the dedication of the other even though they are aware their cat-and-mouse game may end in violence.",17.924927,/zMyfPUelumio3tiDKPffaUpsQTD.jpg,"[{'name': 'Regency Enterprises', 'id': 508}, {'name': 'Forward Pass', 'id': 675}, {'name': 'Warner Bros.', 'id': 6194}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-15,187436818,170.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'es', 'name': 'Español'}]",Released,A Los Angeles Crime Saga,Heat,False,7.7,1886

False,,58000000,"[{'id': 35, 'name': 'Comedy'}, {'id': 10749, 'name': 'Romance'}]",,11860,tt0114319,en,Sabrina,"An ugly duckling having undergone a remarkable change, still harbors feelings for her crush: a carefree playboy, but not before his business-focused brother has something to say about it.",6.677277,/jQh15y5YB7bWz1NtffNZmRw0s9D.jpg,"[{'name': 'Paramount Pictures', 'id': 4}, {'name': 'Scott Rudin Productions', 'id': 258}, {'name': 'Mirage Enterprises', 'id': 932}, {'name': 'Sandollar Productions', 'id': 5842}, {'name': 'Constellation Entertainment', 'id': 14941}, {'name': 'Worldwide', 'id': 55873}, {'name': 'Mont Blanc Entertainment GmbH', 'id': 58079}]","[{'iso\_3166\_1': 'DE', 'name': 'Germany'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-15,0,127.0,"[{'iso\_639\_1': 'fr', 'name': 'Français'}, {'iso\_639\_1': 'en', 'name': 'English'}]",Released,You are cordially invited to the most surprising merger of the year.,Sabrina,False,6.2,141

False,,0,"[{'id': 28, 'name': 'Action'}, {'id': 12, 'name': 'Adventure'}, {'id': 18, 'name': 'Drama'}, {'id': 10751, 'name': 'Family'}]",,45325,tt0112302,en,Tom and Huck,"A mischievous young boy, Tom Sawyer, witnesses a murder by the deadly Injun Joe. Tom becomes friends with Huckleberry Finn, a boy with no future and no family. Tom has to choose between honoring a friendship or honoring an oath because the town alcoholic is accused of the murder. Tom and Huck go through several adventures trying to retrieve evidence.",2.561161,/sGO5Qa55p7wTu7FJcX4H4xIVKvS.jpg,"[{'name': 'Walt Disney Pictures', 'id': 2}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,0,97.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'de', 'name': 'Deutsch'}]",Released,The Original Bad Boys.,Tom and Huck,False,5.4,45

False,,35000000,"[{'id': 28, 'name': 'Action'}, {'id': 12, 'name': 'Adventure'}, {'id': 53, 'name': 'Thriller'}]",,9091,tt0114576,en,Sudden Death,"International action superstar Jean Claude Van Damme teams with Powers Boothe in a Tension-packed, suspense thriller, set against the back-drop of a Stanley Cup game.Van Damme portrays a father whose daughter is suddenly taken during a championship hockey game. With the captors demanding a billion dollars by game's end, Van Damme frantically sets a plan in motion to rescue his daughter and abort an impending explosion before the final buzzer...",5.23158,/eoWvKD60lT95Ss1MYNgVExpo5iU.jpg,"[{'name': 'Universal Pictures', 'id': 33}, {'name': 'Imperial Entertainment', 'id': 21437}, {'name': 'Signature Entertainment', 'id': 23770}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,64350171,106.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Terror goes into overtime.,Sudden Death,False,5.5,174

False,"{'id': 645, 'name': 'James Bond Collection', 'poster\_path': '/HORpg5CSkmeQlAolx3bKMrKgfi.jpg', 'backdrop\_path': '/6VcVl48kNKvdXOZfJPdarlUGOsk.jpg'}",58000000,"[{'id': 12, 'name': 'Adventure'}, {'id': 28, 'name': 'Action'}, {'id': 53, 'name': 'Thriller'}]",http://www.mgm.com/view/movie/757/Goldeneye/,710,tt0113189,en,GoldenEye,James Bond must unmask the mysterious head of the Janus Syndicate and prevent the leader from utilizing the GoldenEye weapons system to inflict devastating revenge on Britain.,14.686036,/5c0ovjT41KnYIHYuF4AWsTe3sKh.jpg,"[{'name': 'United Artists', 'id': 60}, {'name': 'Eon Productions', 'id': 7576}]","[{'iso\_3166\_1': 'GB', 'name': 'United Kingdom'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-11-16,352194034,130.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'ru', 'name': 'Pусский'}, {'iso\_639\_1': 'es', 'name': 'Español'}]",Released,No limits. No fears. No substitutes.,GoldenEye,False,6.6,1194

False,,62000000,"[{'id': 35, 'name': 'Comedy'}, {'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,9087,tt0112346,en,The American President,"Widowed U.S. president Andrew Shepherd, one of the world's most powerful men, can have anything he wants -- and what he covets most is Sydney Ellen Wade, a Washington lobbyist. But Shepherd's attempts at courting her spark wild rumors and decimate his approval ratings.",6.318445,/lymPNGLZgPHuqM29rKMGV46ANij.jpg,"[{'name': 'Columbia Pictures', 'id': 5}, {'name': 'Castle Rock Entertainment', 'id': 97}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-11-17,107879496,106.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Why can't the most powerful man in the world have the one thing he wants most?,The American President,False,6.5,199

False,,0,"[{'id': 35, 'name': 'Comedy'}, {'id': 27, 'name': 'Horror'}]",,12110,tt0112896,en,Dracula: Dead and Loving It,"When a lawyer shows up at the vampire's doorstep, he falls prey to his charms and joins him in his search for fresh blood. Enter Dr. van Helsing, who may be the only one able to vanquish the count.",5.430331,/xve4cgfYItnOhtzLYoTwTVy5FGr.jpg,"[{'name': 'Columbia Pictures', 'id': 5}, {'name': 'Castle Rock Entertainment', 'id': 97}, {'name': 'Enigma Pictures', 'id': 6368}]","[{'iso\_3166\_1': 'FR', 'name': 'France'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,0,88.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'de', 'name': 'Deutsch'}]",Released,,Dracula: Dead and Loving It,False,5.7,210

False,"{'id': 117693, 'name': 'Balto Collection', 'poster\_path': '/w0ZgH6Lgxt2bQYnf1ss74UvYftm.jpg', 'backdrop\_path': '/9VM5LiJV0bGb1st1KyHA3cVnO2G.jpg'}",0,"[{'id': 10751, 'name': 'Family'}, {'id': 16, 'name': 'Animation'}, {'id': 12, 'name': 'Adventure'}]",,21032,tt0112453,en,Balto,"An outcast half-wolf risks his life to prevent a deadly epidemic from ravaging Nome, Alaska.",12.140733,/gV5PCAVCPNxlOLFM1bKk50EqLXO.jpg,"[{'name': 'Universal Pictures', 'id': 33}, {'name': 'Amblin Entertainment', 'id': 56}, {'name': 'Amblimation', 'id': 4105}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,11348324,78.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Part Dog. Part Wolf. All Hero.,Balto,False,7.1,423

False,,44000000,"[{'id': 36, 'name': 'History'}, {'id': 18, 'name': 'Drama'}]",,10858,tt0113987,en,Nixon,"An all-star cast powers this epic look at American President Richard M. Nixon, a man carrying the fate of the world on his shoulders while battling the self-destructive demands within. Spanning his troubled boyhood in California to the shocking Watergate scandal that would end his presidency.",5.092,/cICkmCEiXRhvZmbuAlsA5D9B2rK.jpg,"[{'name': 'Hollywood Pictures', 'id': 915}, {'name': 'Cinergi Pictures Entertainment', 'id': 1504}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,13681765,192.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,"Triumphant in Victory, Bitter in Defeat. He Changed the World, But Lost a Nation.",Nixon,False,7.1,72

False,,98000000,"[{'id': 28, 'name': 'Action'}, {'id': 12, 'name': 'Adventure'}]",,1408,tt0112760,en,Cutthroat Island,"Morgan Adams and her slave, William Shaw, are on a quest to recover the three portions of a treasure map. Unfortunately, the final portion is held by her murderous uncle, Dawg. Her crew is skeptical of her leadership abilities, so she must complete her quest before they mutiny against her. This is made yet more difficult by the efforts of the British crown to end her pirate raids.",7.284477,/odM9973kIv9hcjfHPp6g6BlyTIJ.jpg,"[{'name': 'Le Studio Canal+', 'id': 183}, {'name': 'Laurence Mark Productions', 'id': 415}, {'name': 'Metro-Goldwyn-Mayer (MGM)', 'id': 8411}, {'name': 'Carolco Pictures', 'id': 14723}]","[{'iso\_3166\_1': 'FR', 'name': 'France'}, {'iso\_3166\_1': 'DE', 'name': 'Germany'}, {'iso\_3166\_1': 'IT', 'name': 'Italy'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-22,10017322,119.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'la', 'name': 'Latin'}]",Released,The Course Has Been Set. There Is No Turning Back. Prepare Your Weapons. Summon Your Courage. Discover the Adventure of a Lifetime!,Cutthroat Island,False,5.7,137

False,,52000000,"[{'id': 18, 'name': 'Drama'}, {'id': 80, 'name': 'Crime'}]",,524,tt0112641,en,Casino,The life of the gambling paradise – Las Vegas – and its dark mafia underbelly.,10.137389,/xo517ibXBDdYQY81j0WIG7BVcWq.jpg,"[{'name': 'Universal Pictures', 'id': 33}, {'name': 'Légende Entreprises', 'id': 10898}, {'name': 'Syalis DA', 'id': 11583}, {'name': 'De Fina-Cappa', 'id': 11584}]","[{'iso\_3166\_1': 'FR', 'name': 'France'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-11-22,116112375,178.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,No one stays at the top forever.,Casino,False,7.8,1343

False,,16500000,"[{'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,4584,tt0114388,en,Sense and Sensibility,"Rich Mr. Dashwood dies, leaving his second wife and her daughters poor by the rules of inheritance. Two daughters are the titular opposites.",10.673167,/lA9HTy84Bb6ZwNeyoZKobcMdpMc.jpg,"[{'name': 'Columbia Pictures Corporation', 'id': 441}, {'name': 'Mirage Enterprises', 'id': 932}]","[{'iso\_3166\_1': 'GB', 'name': 'United Kingdom'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-13,135000000,136.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Lose your heart and come to your senses.,Sense and Sensibility,False,7.2,364

False,,4000000,"[{'id': 80, 'name': 'Crime'}, {'id': 35, 'name': 'Comedy'}]",,5,tt0113101,en,Four Rooms,It's Ted the Bellhop's first night on the job...and the hotel's very unusual guests are about to place him in some outrageous predicaments. It seems that this evening's room service is serving up one unbelievable happening after another.,9.026586,/eQs5hh9rxrk1m4xHsIz1w11Ngqb.jpg,"[{'name': 'Miramax Films', 'id': 14}, {'name': 'A Band Apart', 'id': 59}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-09,4300000,98.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,"Twelve outrageous guests. Four scandalous requests. And one lone bellhop, in his first day on the job, who's in for the wildest New year's Eve of his life.",Four Rooms,False,6.5,539

False,"{'id': 3167, 'name': 'Ace Ventura Collection', 'poster\_path': '/qCxH543pScFed1CycwJ1nVgrkOc.jpg', 'backdrop\_path': '/bswWgdDsLu0fhWMYUzLF8XgiK4h.jpg'}",30000000,"[{'id': 80, 'name': 'Crime'}, {'id': 35, 'name': 'Comedy'}, {'id': 12, 'name': 'Adventure'}]",,9273,tt0112281,en,Ace Ventura: When Nature Calls,"Summoned from an ashram in Tibet, Ace finds himself on a perilous journey into the jungles of Africa to find Shikaka, the missing sacred animal of the friendly Wachati tribe. He must accomplish this before the wedding of the Wachati's Princess to the prince of the warrior Wachootoos. If Ace fails, the result will be a vicious tribal war.",8.205448,/wRlGnJhEzcxBjvWtvbjhDSU1cIY.jpg,"[{'name': 'O Entertainment', 'id': 5682}, {'name': 'Warner Bros.', 'id': 6194}, {'name': 'Morgan Creek Productions', 'id': 10210}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-11-10,212385533,90.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,New animals. New adventures. Same hair.,Ace Ventura: When Nature Calls,False,6.1,1128

False,,60000000,"[{'id': 28, 'name': 'Action'}, {'id': 35, 'name': 'Comedy'}, {'id': 80, 'name': 'Crime'}]",,11517,tt0113845,en,Money Train,"A vengeful New York transit cop decides to steal a trainload of subway fares; his foster brother, a fellow cop, tries to protect him.",7.337906,/jSozzzVOR2kfXgTUuGnbgG2yRFi.jpg,"[{'name': 'Columbia Pictures', 'id': 5}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-11-21,35431113,103.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,"Get on, or GET OUT THE WAY!",Money Train,False,5.4,224

False,"{'id': 91698, 'name': 'Chili Palmer Collection', 'poster\_path': '/ae3smJDdWrMJ77tDpYOrpo4frKq.jpg', 'backdrop\_path': '/uWaANGQeoSs5vSP1CWtlkDrkqei.jpg'}",30250000,"[{'id': 35, 'name': 'Comedy'}, {'id': 53, 'name': 'Thriller'}, {'id': 80, 'name': 'Crime'}]",,8012,tt0113161,en,Get Shorty,"Chili Palmer is a Miami mobster who gets sent by his boss, the psychopathic ""Bones"" Barboni, to collect a bad debt from Harry Zimm, a Hollywood producer who specializes in cheesy horror films. When Chili meets Harry's leading lady, the romantic sparks fly. After pitching his own life story as a movie idea, Chili learns that being a mobster and being a Hollywood producer really aren't all that different.",12.669608,/vWtDUUgQAsVyvRW4mE75LBgVm2e.jpg,"[{'name': 'Jersey Films', 'id': 216}, {'name': 'Metro-Goldwyn-Mayer (MGM)', 'id': 8411}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-20,115101622,105.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,"The mob is tough, but it’s nothing like show business.",Get Shorty,False,6.4,305

False,,0,"[{'id': 18, 'name': 'Drama'}, {'id': 53, 'name': 'Thriller'}]",,1710,tt0112722,en,Copycat,An agoraphobic psychologist and a female detective must work together to take down a serial killer who copies serial killers from the past.,10.701801,/80czeJGSoik22fhtUM9WzyjUU4r.jpg,"[{'name': 'Regency Enterprises', 'id': 508}, {'name': 'New Regency Pictures', 'id': 10104}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-27,0,124.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'de', 'name': 'Deutsch'}]",Released,"One man is copying the most notorious killers in history one at a time. Together, two women must stop him from killing again. Or they're next.",Copycat,False,6.5,199

False,,50000000,"[{'id': 28, 'name': 'Action'}, {'id': 12, 'name': 'Adventure'}, {'id': 80, 'name': 'Crime'}, {'id': 53, 'name': 'Thriller'}]",,9691,tt0112401,en,Assassins,"Assassin Robert Rath arrives at a funeral to kill a prominent mobster, only to witness a rival hired gun complete the job for him -- with grisly results. Horrified by the murder of innocent bystanders, Rath decides to take one last job and then return to civilian life. But finding his way out of the world of contract killing grows ever more dangerous as Rath falls for his female target and becomes a marked man himself.",11.065939,/xAx5MP7Dg4y85pyS7atX6eWk4Qd.jpg,"[{'name': 'Silver Pictures', 'id': 1885}, {'name': 'Canal+', 'id': 5358}, {'name': 'Warner Bros.', 'id': 6194}, {'name': 'Dino De Laurentiis Company', 'id': 10308}, {'name': 'Donner/Shuler-Donner Productions', 'id': 23397}, {'name': 'Evansgideon/Lazar', 'id': 25061}]","[{'iso\_3166\_1': 'FR', 'name': 'France'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-06,30303072,132.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'es', 'name': 'Español'}, {'iso\_639\_1': 'nl', 'name': 'Nederlands'}]",Released,"In the shadows of life, In the business of death, One man found a reason to live...",Assassins,False,6.0,394

False,,0,"[{'id': 18, 'name': 'Drama'}, {'id': 14, 'name': 'Fantasy'}, {'id': 878, 'name': 'Science Fiction'}, {'id': 53, 'name': 'Thriller'}]",,12665,tt0114168,en,Powder,"Harassed by classmates who won't accept his shocking appearance, a shy young man known as ""Powder"" struggles to fit in. But the cruel taunts stop when Powder displays a mysterious power that allows him to do incredible things. This phenomenon changes the lives of all those around him in ways they never could have imagined.",12.133094,/1uRKsxOCtgz0xVqs9l4hYtp4dFm.jpg,"[{'name': 'Caravan Pictures', 'id': 175}, {'name': 'Hollywood Pictures', 'id': 915}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-27,0,111.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,An extraordinary encounter with another human being.,Powder,False,6.3,143

False,,3600000,"[{'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",http://www.mgm.com/title\_title.do?title\_star=LEAVINGL,451,tt0113627,en,Leaving Las Vegas,"Ben Sanderson, an alcoholic Hollywood screenwriter who lost everything because of his drinking, arrives in Las Vegas to drink himself to death. There, he meets and forms an uneasy friendship and non-interference pact with prostitute Sera.",10.332025,/37qHRJxnSh5YkuaN9FgfNnMl3Tj.jpg,"[{'name': 'United Artists', 'id': 60}, {'name': 'Intial Productions', 'id': 15547}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-27,49800000,112.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,I Love You... The Way You Are.,Leaving Las Vegas,False,7.1,365

False,,0,"[{'id': 18, 'name': 'Drama'}]",,16420,tt0114057,en,Othello,The evil Iago pretends to be friend of Othello in order to manipulate him to serve his own end in the film version of this Shakespeare classic.,1.845899,/qM0BXEQjmnAzlkDZ0tYmV6twqMX.jpg,"[{'name': 'Columbia Pictures', 'id': 5}, {'name': 'Castle Rock Entertainment', 'id': 97}]","[{'iso\_3166\_1': 'IT', 'name': 'Italy'}]",1995-12-15,0,123.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,"Envy, greed, jealousy and love.",Othello,False,7.0,33

False,,12000000,"[{'id': 35, 'name': 'Comedy'}, {'id': 18, 'name': 'Drama'}, {'id': 10751, 'name': 'Family'}]",,9263,tt0114011,en,Now and Then,"Waxing nostalgic about the bittersweet passage from childhood to puberty in this tender coming-of-age tale, four childhood girlfriends -- Teeny, Chrissy, Samantha and Roberta -- recall the magical summer of 1970. During their walk down memory lane, they reconcile experiences with boys, secrets, bullies and more.",8.681325,/wD6rLdD2Ix3u9YLgE3Do8GyCHoz.jpg,"[{'name': 'New Line Cinema', 'id': 12}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-20,27400000,100.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,In every woman there is the girl she left behind.,Now and Then,False,6.6,91

False,,0,"[{'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,17015,tt0114117,en,Persuasion,"This film adaptation of Jane Austen's last novel follows Anne Elliot, the daughter of a financially troubled aristocratic family, who is persuaded to break her engagement to Frederick Wentworth, a young sea captain of meager means. Years later, money troubles force Anne's father to rent out the family estate to Admiral Croft, and Anne is again thrown into company with Frederick -- who is now rich, successful and perhaps still in love with Anne.",2.228434,/si8911IezMvAnQFDvyg1nKzDlD.jpg,"[{'name': 'BBC Films', 'id': 288}]","[{'iso\_3166\_1': 'GB', 'name': 'United Kingdom'}, {'iso\_3166\_1': 'FR', 'name': 'France'}]",1995-09-27,0,104.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,,Persuasion,False,7.4,36

False,,18000000,"[{'id': 14, 'name': 'Fantasy'}, {'id': 878, 'name': 'Science Fiction'}, {'id': 12, 'name': 'Adventure'}]",,902,tt0112682,fr,La Cité des Enfants Perdus,"A scientist in a surrealist society kidnaps children to steal their dreams, hoping that they slow his aging process.",9.822423,/eVo6ewq4akfyJYy3GXkMsLNzEJc.jpg,"[{'name': 'Procirep', 'id': 311}, {'name': 'Constellation Productions', 'id': 590}, {'name': 'France 3 Cinéma', 'id': 591}, {'name': 'Claudie Ossard Productions', 'id': 592}, {'name': 'Eurimages', 'id': 850}, {'name': 'MEDIA Programme of the European Union', 'id': 851}, {'name': 'Cofimage 5', 'id': 1871}, {'name': 'Televisión Española (TVE)', 'id': 6639}, {'name': 'Tele München Fernseh Produktionsgesellschaft (TMG)', 'id': 7237}, {'name': ""Club d'Investissement Média"", 'id': 8170}, {'name': 'Canal+ España', 'id': 9335}, {'name': 'Elías Querejeta Producciones Cinematográficas S.L.', 'id': 12009}, {'name': 'Centre National de la Cinématographie (CNC)', 'id': 18367}, {'name': 'Victoires Productions', 'id': 25020}, {'name': 'Constellation', 'id': 25021}, {'name': 'Lumière Pictures', 'id': 25129}, {'name': 'Canal+', 'id': 47532}, {'name': 'Studio Image', 'id': 68517}, {'name': 'Cofimage 4', 'id': 79437}, {'name': 'Ossane', 'id': 79438}, {'name': 'Phoenix Images', 'id': 79439}]","[{'iso\_3166\_1': 'FR', 'name': 'France'}, {'iso\_3166\_1': 'DE', 'name': 'Germany'}, {'iso\_3166\_1': 'ES', 'name': 'Spain'}]",1995-05-16,1738611,108.0,"[{'iso\_639\_1': 'cn', 'name': '广州话 / 廣州話'}, {'iso\_639\_1': 'fr', 'name': 'Français'}]",Released,Where happily ever after is just a dream.,The City of Lost Children,False,7.6,308

False,,0,"[{'id': 18, 'name': 'Drama'}, {'id': 80, 'name': 'Crime'}]",,37557,tt0115012,zh,摇啊摇，摇到外婆桥,A provincial boy related to a Shanghai crime family is recruited by his uncle into cosmopolitan Shanghai in the 1930s to be a servant to a ganglord's mistress.,1.100915,/qcoOCoN7viOhboGwhYXyApdDuiq.jpg,"[{'name': 'Ministère des Affaires Étrangères', 'id': 2588}, {'name': 'Alpha Films', 'id': 4507}, {'name': 'La Sept Cinéma', 'id': 23647}]","[{'iso\_3166\_1': 'CN', 'name': 'China'}, {'iso\_3166\_1': 'FR', 'name': 'France'}]",1995-04-30,0,108.0,"[{'iso\_639\_1': 'zh', 'name': '普通话'}]",Released,In 1930's Shanghai violence was not the problem. It was the solution.,Shanghai Triad,False,6.5,17

False,,0,"[{'id': 18, 'name': 'Drama'}, {'id': 80, 'name': 'Crime'}]",,9909,tt0112792,en,Dangerous Minds,"Former Marine Louanne Johnson lands a gig teaching in a pilot program for bright but underachieving teens at a notorious inner-city high school. After having a terrible first day, she decides she must throw decorum to the wind. When Johnson returns to the classroom, she does so armed with a no-nonsense attitude informed by her military training and a fearless determination to better the lives of her students -- no matter what the cost.",9.481338,/y5Jee3QmYOlpqfaPPbfvtdVc5wj.jpg,"[{'name': 'Hollywood Pictures', 'id': 915}, {'name': 'Via Rosa Productions', 'id': 10103}, {'name': 'Don Simpson/Jerry Bruckheimer Films', 'id': 10288}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-08-11,180000000,99.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,She broke the rules... and changed their lives.,Dangerous Minds,False,6.4,249

False,,29500000,"[{'id': 878, 'name': 'Science Fiction'}, {'id': 53, 'name': 'Thriller'}, {'id': 9648, 'name': 'Mystery'}]",,63,tt0114746,en,Twelve Monkeys,"In the year 2035, convict James Cole reluctantly volunteers to be sent back in time to discover the origin of a deadly virus that wiped out nearly all of the earth's population and forced the survivors into underground communities. But when Cole is mistakenly sent to 1990 instead of 1996, he's arrested and locked up in a mental hospital. There he meets psychiatrist Dr. Kathryn Railly, and patient Jeffrey Goines, the son of a famous virus expert, who may hold the key to the mysterious rogue group, the Army of the 12 Monkeys, thought to be responsible for unleashing the killer disease.",12.297305,/6Sj9wDu3YugthXsU0Vry5XFAZGg.jpg,"[{'name': 'Universal Pictures', 'id': 33}, {'name': 'Atlas Entertainment', 'id': 507}, {'name': 'Classico', 'id': 17031}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-29,168840000,129.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'fr', 'name': 'Français'}]",Released,The future is history.,Twelve Monkeys,False,7.4,2470

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False,,0,"[{'id': 36, 'name': 'History'}, {'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,47018,tt0112637,en,Carrington,"The story of the relationship between painter Dora Carrington and author Lytton Strachey in a World War One England of cottages and countryside. Although platonic due to Strachey's homosexuality, the relationship was nevertheless a deep and complicated one. When Carrington did develop a more physical relationship with soldier Ralph Partridge, Strachey was able to welcome him as a friend, although Partridge remained somewhat uneasy, not so much with Strachey's lifestyle and sexual orientation as with the fact that he was a conscientious objector.",1.493361,/a7w6rPdTBgWAx6lnhwHemPx9pEw.jpg,"[{'name': 'StudioCanal', 'id': 694}, {'name': 'Cinéa', 'id': 874}, {'name': 'Euston Films', 'id': 8363}, {'name': 'Freeway Films', 'id': 19316}, {'name': 'European Co-production Fund', 'id': 30226}, {'name': 'Polygram Filmed Entertainment', 'id': 31080}, {'name': 'Orsans Productions', 'id': 44821}]","[{'iso\_3166\_1': 'FR', 'name': 'France'}, {'iso\_3166\_1': 'GB', 'name': 'United Kingdom'}]",1995-11-08,0,121.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,A Love so Unusual it has to be True,Carrington,False,6.4,16

False,,11000000,"[{'id': 18, 'name': 'Drama'}]",,687,tt0112818,en,Dead Man Walking,A justice drama based on a true story about a man on death row who in his last days forms a strong relationship with a nun who teaches him forgiveness and gives him spirituality as she accompanies him to his execution. Susan Sarandon won an Oscar for best female actress for her convincing portrayal of Sister Helen Prejean.,6.891317,/y19uRkAHXOHLeySuBVMqnvVnsrA.jpg,"[{'name': 'Havoc', 'id': 406}, {'name': 'PolyGram Filmed Entertainment', 'id': 1382}, {'name': 'Working Title Films', 'id': 10163}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}, {'iso\_3166\_1': 'GB', 'name': 'United Kingdom'}]",1995-12-29,39363635,122.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,,Dead Man Walking,False,7.3,350

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False,,0,"[{'id': 35, 'name': 'Comedy'}, {'id': 10751, 'name': 'Family'}, {'id': 10749, 'name': 'Romance'}]",,33689,tt0113442,en,It Takes Two,"Identical 9-year-olds from very different backgrounds: orphaned Amanda and wealthy Alyssa meet at summer camp and decide to switch places -- and play matchmaker between Alyssa's dad, Roger, and the kind social worker who cares for Amanda.",7.777735,/l67WJL3Mjce1yoEgL4HheR5v75D.jpg,"[{'name': 'Dualstar Productions', 'id': 6130}, {'name': 'Warner Bros.', 'id': 6194}, {'name': 'Rysher Entertainment', 'id': 11661}, {'name': 'Orr & Cruickshank', 'id': 89131}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-11-17,0,101.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Two identical strangers. Two different worlds. One perfect match.,It Takes Two,False,6.1,149

False,,12000000,"[{'id': 35, 'name': 'Comedy'}, {'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,9603,tt0112697,en,Clueless,"Shallow, rich and socially successful Cher is at the top of her Beverly Hills high school's pecking scale. Seeing herself as a matchmaker, Cher first coaxes two teachers into dating each other. Emboldened by her success, she decides to give hopelessly klutzy new student Tai a makeover. When Tai becomes more popular than she is, Cher realizes that her disapproving ex-stepbrother was right about how misguided she was -- and falls for him.",9.882383,/i8gEHh2sszB6YWLC0jl559sxAeN.jpg,"[{'name': 'Paramount Pictures', 'id': 4}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-07-19,0,97.0,"[{'iso\_639\_1': 'es', 'name': 'Español'}, {'iso\_639\_1': 'en', 'name': 'English'}]",Released,Sex. Clothes. Popularity. Is there a problem here?,Clueless,False,6.9,828

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False,,0,"[{'id': 18, 'name': 'Drama'}, {'id': 10752, 'name': 'War'}]",,31174,tt0114279,en,Richard III,Shakespeare's Play transplanted into a 1930s setting.,4.561387,/e8nuS9GQoSFaqld4hW5erk2ccag.jpg,"[{'name': 'British Screen', 'id': 871}, {'name': 'Mayfair Entertainment International', 'id': 34237}]","[{'iso\_3166\_1': 'GB', 'name': 'United Kingdom'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-29,0,104.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,"I can smile, and murder while I smile",Richard III,False,6.9,50

False,,10000000,"[{'id': 28, 'name': 'Action'}, {'id': 80, 'name': 'Crime'}, {'id': 18, 'name': 'Drama'}, {'id': 36, 'name': 'History'}]",,11443,tt0112819,en,Dead Presidents,"Depicts a heist of old bills, retired from circulation and destined by the government to be ""money to burn"". However, more broadly, it addresses the issues of Black Americans' involvement in the Vietnam War and their subsequent disillusionment with progress in social issues and civil rights back home in the United States, during the 1960s.",9.87957,/2dLyvXVvJXUR9otoqERkYpao1bB.jpg,"[{'name': 'Caravan Pictures', 'id': 175}, {'name': 'Underworld Entertainment', 'id': 476}, {'name': 'Hollywood Pictures', 'id': 915}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-06,0,119.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,"In this daring heist, the only color that counts is green",Dead Presidents,False,6.6,80

False,,19000000,"[{'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,35196,tt0114272,en,Restoration,"An aspiring young physician, Robert Merivel found himself in the service of King Charles II and saves the life of someone close to the King. Merivel joins the King's court and lives the high life provided to someone of his position. Merivel is ordered to marry his King's mistress in order to divert the queens suspicions. He is given one order by the king and that is not to fall in love. The situation worsens when Merivel finds himself in love with his new wife. Eventually, the King finds out and relieves Merivel of his position and wealth. His fall from grace leaves Merivel where he first started. And through his travels and reunions with an old friend, he rediscovers his love for true medicine and what it really means to be a physician.",10.979269,/aqQdEQ1ZVdzrREJxCoPzTlLgHVw.jpg,"[{'name': 'Miramax Films', 'id': 14}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-12-29,0,117.0,"[{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'es', 'name': 'Español'}]",Released,,Restoration,False,6.3,30

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False,,20000000,"[{'id': 14, 'name': 'Fantasy'}, {'id': 18, 'name': 'Drama'}, {'id': 35, 'name': 'Comedy'}, {'id': 53, 'name': 'Thriller'}]",,577,tt0114681,en,To Die For,"Susan wants to work in television and will therefore do anything it takes, even if it means killing her husband. A very dark comedy from independent director Gus Van Sant with a brilliant Nicole Kidman in the leading role.",10.448481,/zCREx8trzejNieDLUsRuwLU0cS3.jpg,"[{'name': 'The Rank Organisation', 'id': 364}, {'name': 'Columbia Pictures Corporation', 'id': 441}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-05-20,21284514,106.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,All she wanted was a little attention.,To Die For,False,6.7,177

False,,10000000,"[{'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,11861,tt0113347,en,How To Make An American Quilt,"Soon-to-be-wed graduate student Finn Dodd develops cold feet when she suspects her fiancé is cheating on her. In order to clear her head, Finn visits her grandmother, Hy, and great aunt, Glady Joe Cleary, in Grasse, Calif. There, Finn learns that Hy and Glady Joe are members of a group of passionate quilters, and over the course of her visit she is regaled with tales of love and life by women who have collected rich experiences and much wisdom.",4.485958,/wnWAZHbjX5Wj6hyb0gGmFdMADZk.jpg,"[{'name': 'Universal Pictures', 'id': 33}, {'name': 'Amblin Entertainment', 'id': 56}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-10-06,23574130,116.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,There's beauty in the patterns of life.,How To Make An American Quilt,False,6.5,38

False,,33000000,"[{'id': 80, 'name': 'Crime'}, {'id': 9648, 'name': 'Mystery'}, {'id': 53, 'name': 'Thriller'}]",http://www.sevenmovie.com/,807,tt0114369,en,Se7en,"Two homicide detectives are on a desperate hunt for a serial killer whose crimes are based on the ""seven deadly sins"" in this dark and haunting film that takes viewers from the tortured remains of one victim to the next. The seasoned Det. Sommerset researches each sin in an effort to get inside the killer's mind, while his novice partner, Mills, scoffs at his efforts to unravel the case.",18.45743,/8zw8IL4zEPjkh8Aysdcd0FwGMb0.jpg,"[{'name': 'New Line Cinema', 'id': 12}, {'name': 'Juno Pix', 'id': 4286}, {'name': 'Cecchi Gori Pictures', 'id': 65394}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-09-22,327311859,127.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,Seven deadly sins. Seven ways to die.,Se7en,False,8.1,5915

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False,,0,"[{'id': 18, 'name': 'Drama'}, {'id': 10749, 'name': 'Romance'}]",,8391,tt0114916,en,When Night Is Falling,"A prudish woman, working on tenure as a literacy professor at a large urban university, finds herself strangely attracted to a free-spirited, liberal woman whom works at a local carnival which comes to town.",3.302524,/wnUuYc9XnWrTTAGz8YjjULA3Zmr.jpg,"[{'name': 'Alliance Communications Corporation', 'id': 2480}]","[{'iso\_3166\_1': 'CA', 'name': 'Canada'}]",1995-05-05,0,96.0,"[{'iso\_639\_1': 'en', 'name': 'English'}]",Released,,When Night Is Falling,False,5.9,10

False,,6000000,"[{'id': 18, 'name': 'Drama'}, {'id': 80, 'name': 'Crime'}, {'id': 53, 'name': 'Thriller'}]",http://www.mgm.com/#/our-titles/2083/The-Usual-Suspects,629,tt0114814,en,The Usual Suspects,"Held in an L.A. interrogation room, Verbal Kint attempts to convince the feds that a mythic crime lord, Keyser Soze, not only exists, but was also responsible for drawing him and his four partners into a multi-million dollar heist that ended with an explosion in San Pedro harbor – leaving few survivors. Verbal lures his interrogators with an incredible story of the crime lord's almost supernatural prowess.",16.302466,/jgJoRWltoS17nD5MAQ1yK2Ztefw.jpg,"[{'name': 'Blue Parrot Productions', 'id': 361}, {'name': 'Bad Hat Harry Productions', 'id': 9168}]","[{'iso\_3166\_1': 'US', 'name': 'United States of America'}]",1995-07-19,23341568,106.0,"[{'iso\_639\_1': 'es', 'name': 'Español'}, {'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'fr', 'name': 'Français'}, {'iso\_639\_1': 'hu', 'name': 'Magyar'}]",Released,Five Criminals. One Line Up. No Coincidence.,The Usual Suspects,False,8.1,3334

**Sample Solution** :

**R Programming Code :**

movie\_data = read.csv(file="movies.csv", header=TRUE, sep=",")

print("Content of the .csv file:")

print(movie\_data)

Copy

Sample Output:

[1] "Content of the .csv file:"

adult

1 False

2 False

3 False

4 False

5 False

6 False

7 False

8 False

9 False

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6

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homepage id imdb\_id original\_language

1 http://toystory.disney.com/toy-story 862 tt0114709 en

2 8844 tt0113497 en

3 15602 tt0113228 en

4 31357 tt0114885 en

5 11862 tt0113041 en

6 949 tt0113277 en

7 11860 tt0114319 en

8 45325 tt0112302 en

9 9091 tt0114576 en

original\_title

1 Toy Story

2 Jumanji

3 Grumpier Old Men

4 Waiting to Exhale

5 Father of the Bride Part II

6 Heat

7 Sabrina

8 Tom and Huck

9 Sudden Death

overview

1 Led by Woody, Andy's toys live happily in his room until Andy's birthday brings Buzz Lightyear onto the scene. Afraid of losing his place in Andy's heart, Woody plots against Buzz. But when circumstances separate Buzz and Woody from their owner, the duo eventually learns to put aside their differences.

2 When siblings Judy and Peter discover an enchanted board game that opens the door to a magical world, they unwittingly invite Alan -- an adult who's been trapped inside the game for 26 years -- into their living room. Alan's only hope for freedom is to finish the game, which proves risky as all three find themselves running from giant rhinoceroses, evil monkeys and other terrifying creatures.

3 A family wedding reignites the ancient feud between next-door neighbors and fishing buddies John and Max. Meanwhile, a sultry Italian divorcée opens a restaurant at the local bait shop, alarming the locals who worry she'll scare the fish away. But she's less interested in seafood than she is in cooking up a hot time with Max.

4 Cheated on, mistreated and stepped on, the women are holding their breath, waiting for the elusive "good man" to break a string of less-than-stellar lovers. Friends and confidants Vannah, Bernie, Glo and Robin talk it all out, determined to find a better way to breathe.

5 Just when George Banks has recovered from his daughter's wedding, he receives the news that she's pregnant ... and that George's wife, Nina, is expecting too. He was planning on selling their home, but that's a plan that -- like George -- will have to change with the arrival of both a grandchild and a kid of his own.

6 Obsessive master thief, Neil McCauley leads a top-notch crew on various insane heists throughout Los Angeles while a mentally unstable detective, Vincent Hanna pursues him without rest. Each man recognizes and respects the ability and the dedication of the other even though they are aware their cat-and-mouse game may end in violence.

7 An ugly duckling having undergone a remarkable change, still harbors feelings for her crush: a carefree playboy, but not before his business-focused brother has something to say about it.

8 A mischievous young boy, Tom Sawyer, witnesses a murder by the deadly Injun Joe. Tom becomes friends with Huckleberry Finn, a boy with no future and no family. Tom has to choose between honoring a friendship or honoring an oath because the town alcoholic is accused of the murder. Tom and Huck go through several adventures trying to retrieve evidence.

9 International action superstar Jean Claude Van Damme teams with Powers Boothe in a Tension-packed, suspense thriller, set against the back-drop of a Stanley Cup game.Van Damme portrays a father whose daughter is suddenly taken during a championship hockey game. With the captors demanding a billion dollars by game's end, Van Damme frantically sets a plan in motion to rescue his daughter and abort an impending explosion before the final buzzer...

popularity poster\_path

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6 17.924927 /zMyfPUelumio3tiDKPffaUpsQTD.jpg

7 6.677277 /jQh15y5YB7bWz1NtffNZmRw0s9D.jpg

8 2.561161 /sGO5Qa55p7wTu7FJcX4H4xIVKvS.jpg

9 5.231580 /eoWvKD60lT95Ss1MYNgVExpo5iU.jpg

production\_companies

1 [{'name': 'Pixar Animation Studios', 'id': 3}]

2 [{'name': 'TriStar Pictures', 'id': 559}, {'name': 'Teitler Film', 'id': 2550}, {'name': 'Interscope Communications', 'id': 10201}]

3 [{'name': 'Warner Bros.', 'id': 6194}, {'name': 'Lancaster Gate', 'id': 19464}]

4 [{'name': 'Twentieth Century Fox Film Corporation', 'id': 306}]

5 [{'name': 'Sandollar Productions', 'id': 5842}, {'name': 'Touchstone Pictures', 'id': 9195}]

6 [{'name': 'Regency Enterprises', 'id': 508}, {'name': 'Forward Pass', 'id': 675}, {'name': 'Warner Bros.', 'id': 6194}]

7 [{'name': 'Paramount Pictures', 'id': 4}, {'name': 'Scott Rudin Productions', 'id': 258}, {'name': 'Mirage Enterprises', 'id': 932}, {'name': 'Sandollar Productions', 'id': 5842}, {'name': 'Constellation Entertainment', 'id': 14941}, {'name': 'Worldwide', 'id': 55873}, {'name': 'Mont Blanc Entertainment GmbH', 'id': 58079}]

8 [{'name': 'Walt Disney Pictures', 'id': 2}]

9 [{'name': 'Universal Pictures', 'id': 33}, {'name': 'Imperial Entertainment', 'id': 21437}, {'name': 'Signature Entertainment', 'id': 23770}]

production\_countries

1 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

2 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

3 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

4 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

5 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

6 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

7 [{'iso\_3166\_1': 'DE', 'name': 'Germany'}, {'iso\_3166\_1': 'US', 'name': 'United States of America'}]

8 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

9 [{'iso\_3166\_1': 'US', 'name': 'United States of America'}]

release\_date revenue runtime

1 1995-10-30 373554033 81

2 1995-12-15 262797249 104

3 1995-12-22 0 101

4 1995-12-22 81452156 127

5 1995-02-10 76578911 106

6 1995-12-15 187436818 170

7 1995-12-15 0 127

8 1995-12-22 0 97

9 1995-12-22 64350171 106

spoken\_languages

1 [{'iso\_639\_1': 'en', 'name': 'English'}]

2 [{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'fr', 'name': 'Français'}]

3 [{'iso\_639\_1': 'en', 'name': 'English'}]

4 [{'iso\_639\_1': 'en', 'name': 'English'}]

5 [{'iso\_639\_1': 'en', 'name': 'English'}]

6 [{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'es', 'name': 'Español'}]

7 [{'iso\_639\_1': 'fr', 'name': 'Français'}, {'iso\_639\_1': 'en', 'name': 'English'}]

8 [{'iso\_639\_1': 'en', 'name': 'English'}, {'iso\_639\_1': 'de', 'name': 'Deutsch'}]

9 [{'iso\_639\_1': 'en', 'name': 'English'}]

status

1 Released

2 Released

3 Released

4 Released

5 Released

6 Released

7 Released

8 Released

9 Released

tagline

1

2 Roll the dice and unleash the excitement!

3 Still Yelling. Still Fighting. Still Ready for Love.

4 Friends are the people who let you be yourself... and never let you forget it.

5 Just When His World Is Back To Normal... He's In For The Surprise Of His Life!

6 A Los Angeles Crime Saga

7 You are cordially invited to the most surprising merger of the year.

8 The Original Bad Boys.

9 Terror goes into overtime.

title video vote\_average vote\_count

1 Toy Story False 7.7 5415

2 Jumanji False 6.9 2413

3 Grumpier Old Men False 6.5 92

4 Waiting to Exhale False 6.1 34

5 Father of the Bride Part II False 5.7 173

6 Heat False 7.7 1886

7 Sabrina False 6.2 141

8 Tom and Huck False 5.4 45

9 Sudden Death False 5.5 174

15. Write a R program to create three vectors numeric data, character data and logical data. Display the content of the vectors and their type.

**R Programming Code :**

a = c(1, 2, 5, 3, 4, 0, -1, -3)

b = c("Red", "Green", "White")

c = c(TRUE, TRUE, TRUE, FALSE, TRUE, FALSE)

print(a)

print(typeof(a))

print(b)

print(typeof(b))

print(c)

print(typeof(c))

Copy

Sample Output:

[1] 1 2 5 3 4 0 -1 -3

[1] "double"

[1] "Red" "Green" "White"

[1] "character"

[1] TRUE TRUE TRUE FALSE TRUE FALSE

[1] "logical"

16. Write a R program to create a 5 × 4 matrix , 3 × 3 matrix with labels and fill the matrix by rows and 2 × 2 matrix with labels and fill the matrix by columns.

**Sample Solution** :

**R Programming Code :**

m1 = matrix(1:20, nrow=5, ncol=4)

print("5 × 4 matrix:")

print(m1)

cells = c(1,3,5,7,8,9,11,12,14)

rnames = c("Row1", "Row2", "Row3")

cnames = c("Col1", "Col2", "Col3")

m2 = matrix(cells, nrow=3, ncol=3, byrow=TRUE, dimnames=list(rnames, cnames))

print("3 × 3 matrix with labels, filled by rows: ")

print(m2)

print("3 × 3 matrix with labels, filled by columns: ")

m3 = matrix(cells, nrow=3, ncol=3, byrow=FALSE, dimnames=list(rnames, cnames))

print(m3)

Copy

Sample Output:

[1] "5 × 4 matrix:"

[,1] [,2] [,3] [,4]

[1,] 1 6 11 16

[2,] 2 7 12 17

[3,] 3 8 13 18

[4,] 4 9 14 19

[5,] 5 10 15 20

[1] "3 × 3 matrix with labels, filled by rows: "

Col1 Col2 Col3

Row1 1 3 5

Row2 7 8 9

Row3 11 12 14

[1] "3 × 3 matrix with labels, filled by columns: "

Col1 Col2 Col3

Row1 1 7 11

Row2 3 8 12

Row3 5 9 14

17. Write a R program to create a 5 × 4 matrix , 3 × 3 matrix with labels and fill the matrix by rows and 2 × 2 matrix with labels and fill the matrix by columns.

**Sample Solution** :

**R Programming Code :**

m1 = matrix(1:20, nrow=5, ncol=4)

print("5 × 4 matrix:")

print(m1)

cells = c(1,3,5,7,8,9,11,12,14)

rnames = c("Row1", "Row2", "Row3")

cnames = c("Col1", "Col2", "Col3")

m2 = matrix(cells, nrow=3, ncol=3, byrow=TRUE, dimnames=list(rnames, cnames))

print("3 × 3 matrix with labels, filled by rows: ")

print(m2)

print("3 × 3 matrix with labels, filled by columns: ")

m3 = matrix(cells, nrow=3, ncol=3, byrow=FALSE, dimnames=list(rnames, cnames))

print(m3)

Copy

Sample Output:

[1] "5 × 4 matrix:"

[,1] [,2] [,3] [,4]

[1,] 1 6 11 16

[2,] 2 7 12 17

[3,] 3 8 13 18

[4,] 4 9 14 19

[5,] 5 10 15 20

[1] "3 × 3 matrix with labels, filled by rows: "

Col1 Col2 Col3

Row1 1 3 5

Row2 7 8 9

Row3 11 12 14

[1] "3 × 3 matrix with labels, filled by columns: "

Col1 Col2 Col3

Row1 1 7 11

Row2 3 8 12

Row3 5 9 14

18. Write a R program to create a 5 × 4 matrix , 3 × 3 matrix with labels and fill the matrix by rows and 2 × 2 matrix with labels and fill the matrix by columns.

**Sample Solution** :

**R Programming Code :**

m1 = matrix(1:20, nrow=5, ncol=4)

print("5 × 4 matrix:")

print(m1)

cells = c(1,3,5,7,8,9,11,12,14)

rnames = c("Row1", "Row2", "Row3")

cnames = c("Col1", "Col2", "Col3")

m2 = matrix(cells, nrow=3, ncol=3, byrow=TRUE, dimnames=list(rnames, cnames))

print("3 × 3 matrix with labels, filled by rows: ")

print(m2)

print("3 × 3 matrix with labels, filled by columns: ")

m3 = matrix(cells, nrow=3, ncol=3, byrow=FALSE, dimnames=list(rnames, cnames))

print(m3)

Copy

Sample Output:

[1] "5 × 4 matrix:"

[,1] [,2] [,3] [,4]

[1,] 1 6 11 16

[2,] 2 7 12 17

[3,] 3 8 13 18

[4,] 4 9 14 19

[5,] 5 10 15 20

[1] "3 × 3 matrix with labels, filled by rows: "

Col1 Col2 Col3

Row1 1 3 5

Row2 7 8 9

Row3 11 12 14

[1] "3 × 3 matrix with labels, filled by columns: "

Col1 Col2 Col3

Row1 1 7 11

Row2 3 8 12

Row3 5 9 14

19. Write a R program to create an array, passing in a vector of values and a vector of dimensions. Also  provide names for each dimension.

**Sample Solution** :

**R Programming Code :**

a = array(

6:30,

dim = c(4, 3, 2),

dimnames = list(

c("Col1", "Col2", "Col3", "Col4"),

c("Row1", "Row2", "Row3"),

c("Part1", "Part2")

)

)

print(a)

Copy

Sample Output:

, , Part1

Row1 Row2 Row3

Col1 6 10 14

Col2 7 11 15

Col3 8 12 16

Col4 9 13 17

, , Part2

Row1 Row2 Row3

Col1 18 22 26

Col2 19 23 27

Col3 20 24 28

Col4 21 25 29

20. Write a R program to create an array with three columns, three rows, and two "tables", taking two vectors as input to the array. Print the array.

**Sample Solution** :

**R Programming Code :**

v1 = c(1, 3, 5, 7)

v2 = c(2, 4, 6, 8, 10)

arra1 = array(c(v1, v2),dim = c(3,3,2))

print(arra1)

Copy

Sample Output:

, , 1

[,1] [,2] [,3]

[1,] 1 7 6

[2,] 3 2 8

[3,] 5 4 10

, , 2

[,1] [,2] [,3]

[1,] 1 7 6

[2,] 3 2 8

[3,] 5 4 10

21. Write a R program to create a list of elements using vectors, matrices and a functions. Print the content of the list.

**Sample Solution** :

**R Programming Code :**

l = list(

c(1, 2, 2, 5, 7, 12),

month.abb,

matrix(c(3, -8, 1, -3), nrow = 2),

asin

)

print("Content of the list:")

print(l)

Copy

Sample Output:

[1] "Content of the list:"

[[1]]

[1] 1 2 2 5 7 12

[[2]]

[1] "Jan" "Feb" "Mar" "Apr" "May" "Jun" "Jul" "Aug" "Sep" "Oct" "Nov" "Dec"

[[3]]

[,1] [,2]

[1,] 3 1

[2,] -8 -3

[[4]]

function (x) .Primitive("asin")

22. Write a R program to draw an empty plot and an empty plot specify the axes limits of the graphic.

**Sample Solution** :

**R Programming Code :**

#print("Empty plot:")

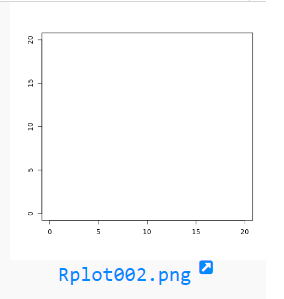
plot.new()

#print("Empty plot specify the axes limits of the graphic:")

plot(1, type="n", xlab="", ylab="", xlim=c(0, 20), ylim=c(0, 20))

Copy

Sample Output:

23. Write a R program to create a simple bar plot of five subjects marks.

**Sample Solution** :

**R Programming Code :**

marks = c(70, 95, 80, 74)

barplot(marks,

main = "Comparing marks of 5 subjects",

xlab = "Marks",

ylab = "Subject",

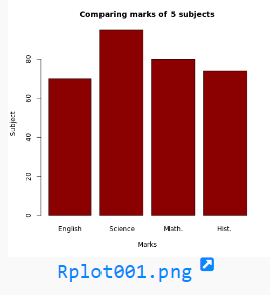
names.arg = c("English", "Science", "Math.", "Hist."),

col = "darkred",

horiz = FALSE)

Copy

Sample Output:



24. Write a R program to create bell curve of a random normal distribution.

**Sample Solution** :

**R Programming Code :**

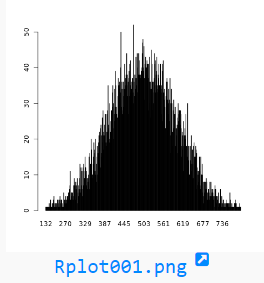
n = floor(rnorm(10000, 500, 100))

t = table(n)

barplot(t)

Copy

Sample Output:



25.Write a R program to compute sum, mean and product of a given vector elements.

**Sample Solution** :

**R Programming Code :**

nums = c(10, 20, 30)

print('Original vector:')

print(nums)

print(paste("Sum of vector elements:",sum(nums)))

print(paste("Mean of vector elements:",mean(nums)))

print(paste("Product of vector elements:",prod(nums)))

Copy

Sample Output:

[1] "Original vector:"

[1] 10 20 30

[1] "Sum of vector elements: 60"

[1] "Mean of vector elements: 20"

[1] "Product of vector elements: 6000"

26. Write a R program to create a list of heterogeneous data, which include character, numeric and logical vectors. Print the lists.

**Sample Solution** :

**R Programming Code :**

my\_list = list(Chr="Python", nums = 1:15, flag=TRUE)

print(my\_list)

Copy

Sample Output:

$Chr

[1] "Python"

$nums

[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

$flag

[1] TRUE

27.Write a R program to create a Dataframes which contain details of 5 employees and display the details.

**Sample Solution** :

**R Programming Code :**

Employees = data.frame(Name=c("Anastasia S","Dima R","Katherine S", "JAMES A","LAURA MARTIN"),

Gender=c("M","M","F","F","M"),

Age=c(23,22,25,26,32),

Designation=c("Clerk","Manager","Exective","CEO","ASSISTANT"),

SSN=c("123-34-2346","123-44-779","556-24-433","123-98-987","679-77-576")

)

print("Details of the employees:")

print(Employees)

Copy

Sample Output:

[1] "Details of the employees:"

Name Gender Age Designation SSN

1 Anastasia S M 23 Clerk 123-34-2346

2 Dima R M 22 Manager 123-44-779

3 Katherine S F 25 Exective 556-24-433

4 JAMES A F 26 CEO 123-98-987

5 LAURA MARTIN M 32 ASSISTANT 679-77-576

28. Write a R program to create a Dataframes which contain details of 5 employees and display summary of the data.

**Sample Solution** :

**R Programming Code :**

Employees = data.frame(Name=c("Anastasia S","Dima R","Katherine S", "JAMES A","LAURA MARTIN"),

Gender=c("M","M","F","F","M"),

Age=c(23,22,25,26,32),

Designation=c("Clerk","Manager","Exective","CEO","ASSISTANT"),

SSN=c("123-34-2346","123-44-779","556-24-433","123-98-987","679-77-576")

)

print("Summary of the data:")

print(summary(Employees))

Copy

Sample Output:

[1] "Summary of the data:"

Name Gender Age Designation SSN

Anastasia S :1 F:2 Min. :22.0 ASSISTANT:1 123-34-2346:1

Dima R :1 M:3 1st Qu.:23.0 CEO :1 123-44-779 :1

JAMES A :1 Median :25.0 Clerk :1 123-98-987 :1

Katherine S :1 Mean :25.6 Exective :1 556-24-433 :1

LAURA MARTIN:1 3rd Qu.:26.0 Manager :1 679-77-576 :1

Max. :32.0

29. Write a R program to create the system's idea of the current date with and without time.

**Sample Solution** :

**R Programming Code :**

print("System's idea of the current date with and without time:")

print(Sys.Date())

print(Sys.time())

Copy

Sample Output:

[1] "System's idea of the current date with and without time:"

[1] "2018-11-13"

[1] "2018-11-13 12:33:23 UTC"