

RAssignment

Group7

2024-06-14

```
# Load necessary libraries
library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union

library(ggplot2)
library(readxl)

# 1. Load the dataset
# Description: Load the dataset from the specified file path.
file_path <- "C:/Users/acer/OneDrive/Desktop/2nd Semester/R
Programming/Assignment/File/dataset.xlsx"
dataset <- read_excel(file_path, sheet = "Worksheet")

# 2. Print the structure of your dataset
# Description: Print the structure of the dataset to understand its format
and variables.
cat("2. Structure of the dataset:\n")

## 2. Structure of the dataset:

str(dataset)

## tibble [980 × 26] (S3: tbl_df/tbl/data.frame)
##   $ brand_name      : chr [1:980] "oneplus" "oneplus" "samsung"
##   "motorola" ...
##   $ model           : chr [1:980] "OnePlus 11 5G" "OnePlus Nord CE
##   2 Lite 5G" "Samsung Galaxy A14 5G" "Motorola Moto G62 5G" ...
##   $ price           : num [1:980] 54999 19989 16499 14999 24999
##   ...
##   $ rating          : num [1:980] 89 81 75 81 82 80 81 86 85 84
##   ...
##   $ has_5g          : chr [1:980] "True" "True" "True" "True" ...
##   $ has_nfc         : chr [1:980] "True" "False" "False" "False"
```

```

...
## $ has_ir_blaster      : chr [1:980] "False" "False" "False" "False"
...
## $ processor_brand    : chr [1:980] "snapdragon" "snapdragon"
"exynos" "snapdragon" ...
## $ num_cores          : num [1:980] 8 8 8 8 8 8 6 8 8 8 ...
## $ processor_speed    : num [1:980] 3.2 2.2 2.4 2.2 2.6 2.2 3.22 2.6
2.5 3 ...
## $ battery_capacity   : num [1:980] 5000 5000 5000 5000 5000 ...
## $ fast_charging_available : num [1:980] 1 1 1 1 1 1 1 1 1 1 ...
## $ fast_charging      : num [1:980] 100 33 15 NA 67 25 NA 120 33 80
...
## $ ram_capacity       : num [1:980] 12 6 4 6 6 6 6 8 8 8 ...
## $ internal_memory    : num [1:980] 256 128 64 128 128 128 128 256
128 128 ...
## $ screen_size        : num [1:980] 6.7 6.59 6.6 6.55 6.7 6.6 6.1
6.67 6.55 6.43 ...
## $ refresh_rate       : num [1:980] 120 120 90 120 120 120 60 120
120 90 ...
## $ num_rear_cameras   : num [1:980] 3 3 3 3 3 3 2 3 2 3 ...
## $ num_front_cameras  : num [1:980] 1 1 1 1 1 1 1 1 1 1 ...
## $ os                 : chr [1:980] "android" "android" "android"
"android" ...
## $ primary_camera_rear : num [1:980] 50 64 50 50 108 50 12 200 50 50
...
## $ primary_camera_front : num [1:980] 16 16 13 16 16 8 12 16 16 32 ...
## $ extended_memory_available: num [1:980] 0 1 1 1 0 1 0 0 0 0 ...
## $ extended_upto       : num [1:980] NA 1024 1024 1024 NA ...
## $ resolution_width    : num [1:980] 1440 1080 1080 1080 1080 1080
1170 1080 1080 1080 ...
## $ resolution_height   : num [1:980] 3216 2412 2408 2400 2412 ...

```

3. List the variables in your dataset

Description: List all the variables present in the dataset.

```
cat("3. Variables in the dataset:\n")
```

```
## 3. Variables in the dataset:
```

```
print(names(dataset))
```

```

## [1] "brand_name"      "model"
## [3] "price"           "rating"
## [5] "has_5g"          "has_nfc"
## [7] "has_ir_blaster"  "processor_brand"
## [9] "num_cores"       "processor_speed"
## [11] "battery_capacity" "fast_charging_available"
## [13] "fast_charging"   "ram_capacity"
## [15] "internal_memory" "screen_size"
## [17] "refresh_rate"    "num_rear_cameras"
## [19] "num_front_cameras" "os"
## [21] "primary_camera_rear" "primary_camera_front"

```

```
## [23] "extended_memory_available" "extended_upto"
## [25] "resolution_width"          "resolution_height"

# 4. Print the top 15 rows of your dataset
# Description: Display the top 15 rows of the dataset to get an overview of
the data.
cat("4. Top 15 rows of the dataset:\n")

## 4. Top 15 rows of the dataset:

print(head(dataset, 15))

## # A tibble: 15 × 26
##   brand_name model price rating has_5g has_nfc has_ir_blaster
processor_brand
##   <chr> <chr> <dbl> <dbl> <chr> <chr> <chr> <chr>
## 1 oneplus OnePl... 54999 89 True True False
snapdragon
## 2 oneplus OnePl... 19989 81 True False False
snapdragon
## 3 samsung Samsu... 16499 75 True False False exynos
## 4 motorola Motor... 14999 81 True False False
snapdragon
## 5 realme Realm... 24999 82 True False False dimensionality
## 6 samsung Samsu... 16999 80 True True False
snapdragon
## 7 apple Apple... 65999 81 True True False bionic
## 8 xiaomi Xiaom... 29999 86 True False True dimensionality
## 9 nothing Nothi... 26749 85 True True False
snapdragon
## 10 oneplus OnePl... 28999 84 True True False dimensionality
## 11 realme Realm... 18999 82 True False False
snapdragon
## 12 oppo Oppo ... 18999 79 True True False dimensionality
## 13 xiaomi Xiaom... 24762 79 True False True dimensionality
## 14 vivo Vivo ... 16990 80 True False False
snapdragon
## 15 samsung Samsu... 114990 NA True True False
snapdragon
## # i 18 more variables: num_cores <dbl>, processor_speed <dbl>,
## # battery_capacity <dbl>, fast_charging_available <dbl>, fast_charging
<dbl>,
## # ram_capacity <dbl>, internal_memory <dbl>, screen_size <dbl>,
## # refresh_rate <dbl>, num_rear_cameras <dbl>, num_front_cameras <dbl>,
## # os <chr>, primary_camera_rear <dbl>, primary_camera_front <dbl>,
## # extended_memory_available <dbl>, extended_upto <dbl>,
## # resolution_width <dbl>, resolution_height <dbl>

# 5. Write a user-defined function using any of the variables from the
dataset
# Description: Define a function to calculate the discounted price of a phone
```

based on a discount rate.

```
discounted_price <- function(price, discount_rate) {  
  return(price - (price * discount_rate / 100))  
}
```

6. Use data manipulation techniques and filter rows based on any Logical criteria that exist in your dataset

Description: Filter the dataset to include only phones with price > 500 and rating > 75.

```
filtered_dataset <- dataset %>% filter(price > 500, rating > 75)  
cat("6. Filtered dataset (phones with price > 500 and rating > 75):\n")
```

6. Filtered dataset (phones with price > 500 and rating > 75):

```
print(filtered_dataset)
```

A tibble: 596 × 26

```
##   brand_name model   price rating has_5g has_nfc has_ir_blaster  
processor_brand  
##   <chr>      <chr>  <dbl>  <dbl> <chr>  <chr>  <chr>      <chr>  
## 1 oneplus    OnePlu... 54999    89 True   True   False  
snapdragon  
## 2 oneplus    OnePlu... 19989    81 True   False  False  
snapdragon  
## 3 motorola   Motoro... 14999    81 True   False  False  
snapdragon  
## 4 realme     Realme... 24999    82 True   False  False  dimension  
## 5 samsung    Samsun... 16999    80 True   True   False  
snapdragon  
## 6 apple      Apple ... 65999    81 True   True   False  bionic  
## 7 xiaomi      Xiaomi... 29999    86 True   False  True   dimension  
## 8 nothing     Nothin... 26749    85 True   True   False  
snapdragon  
## 9 oneplus    OnePlu... 28999    84 True   True   False  dimension  
## 10 realme     Realme... 18999    82 True   False  False
```

i 586 more rows

```
## # i 18 more variables: num_cores <dbl>, processor_speed <dbl>,  
## #   battery_capacity <dbl>, fast_charging_available <dbl>, fast_charging  
<dbl>,  
## #   ram_capacity <dbl>, internal_memory <dbl>, screen_size <dbl>,  
## #   refresh_rate <dbl>, num_rear_cameras <dbl>, num_front_cameras <dbl>,  
## #   os <chr>, primary_camera_rear <dbl>, primary_camera_front <dbl>,  
## #   extended_memory_available <dbl>, extended_upto <dbl>, ...
```

7. Identify the dependent & independent variables and use reshaping techniques and create a new data frame by joining those variables from your dataset

Description: Create a new data frame by separating dependent (price) and independent variables and then joining them.

```
independent_vars <- dataset %>% select(-price)
```

```

dependent_var <- dataset %>% select(price)
new_dataset <- cbind(dependent_var, independent_vars)
cat("7. New data frame with dependent and independent variables:\n")

## 7. New data frame with dependent and independent variables:

print(new_dataset)

##      price brand_name      model
rating
## 1    54999    oneplus    OnePlus 11 5G
89
## 2    19989    oneplus    OnePlus Nord CE 2 Lite 5G
81
## 3    16499    samsung    Samsung Galaxy A14 5G
75
## 4    14999    motorola    Motorola Moto G62 5G
81
## 5    24999    realme      Realme 10 Pro Plus
82
## 6    16999    samsung    Samsung Galaxy F23 5G (6GB RAM + 128GB)
80
## 7    65999    apple      Apple iPhone 14
81
## 8    29999    xiaomi      Xiaomi Redmi Note 12 Pro Plus
86
## 9    26749    nothing    Nothing Phone 1
85
## 10   28999    oneplus    OnePlus Nord 2T 5G
84
## 11   18999    realme      Realme 10 Pro
82
## 12   18999    oppo        Oppo A78
79
## 13   24762    xiaomi      Xiaomi Redmi Note 12 Pro 5G
79
## 14   16990    vivo        Vivo T1 5G (6GB RAM + 128GB)
80
## 15   114990   samsung    Samsung Galaxy S23 Ultra 5G
NA
## 16   62999    apple      Apple iPhone 13
79
## 17    9999    vivo        Vivo Y16
65
## 18   45999    oppo        OPPO Reno 9 Pro Plus
86
## 19   32999    oneplus    OnePlus 10R 5G
86
## 20   14499    vivo        Vivo Y22
72

```

## 21	39999	oneplus	OnePlus 11R
85			
## 22	35999	vivo	Vivo V25 Pro 5G
85			
## 23	14999	poco	Poco X4 Pro 5G
80			
## 24	17859	xiaomi	Xiaomi Redmi Note 12
76			
## 25	42990	vivo	Vivo V26 Pro
87			
## 26	31239	samsung	Samsung Galaxy S20 FE 5G
88			
## 27	21995	oneplus	OnePlus Nord CE 2 Lite 5G (8GB RAM + 128GB)
84			
## 28	129990	apple	Apple iPhone 14 Pro Max
76			
## 29	27999	vivo	Vivo V25 5G
83			
## 30	69999	oneplus	OnePlus 11 Pro
NA			
## 31	19999	realme	Realme 10 Pro (8GB RAM + 128GB)
84			
## 32	20999	poco	Poco X5 Pro
81			
## 33	27990	vivo	Vivo V27
83			
## 34	38999	apple	Apple iPhone 11
73			
## 35	23790	samsung	Samsung Galaxy M53 5G
85			
## 36	39999	samsung	Samsung Galaxy S21 FE 5G
87			
## 37	29990	oppo	Oppo Reno 8T
87			
## 38	91999	samsung	Samsung Galaxy S22 Ultra 5G
NA			
## 39	32999	xiaomi	Xiaomi Redmi Note 12 Pro Max 5G
83			
## 40	28499	oppo	OPPO Reno 9 5G
83			
## 41	21999	oneplus	OnePlus Nord CE 3 5G
83			
## 42	19999	xiaomi	Xiaomi Redmi Note 11 Pro Plus 5G
83			
## 43	18999	motorola	Motorola Edge 20 Fusion 5G
87			
## 44	27999	realme	Realme 10 Pro Plus (8GB RAM + 256GB)
85			
## 45	18499	vivo	Vivo Y35
80			

## 46	17478	samsung	Samsung Galaxy M33 5G
81			
## 47	11936	xiaomi	Xiaomi Redmi Note 11
76			
## 48	8950	realme	Realme C33
64			
## 49	12489	vivo	Vivo Y16 (4GB RAM + 64GB)
68			
## 50	42999	samsung	Samsung Galaxy A74 5G
NA			
## 51	18999	samsung	Samsung Galaxy A14 5G (6GB RAM + 128GB)
79			
## 52	29999	iqoo	iQOO Neo 7 5G
82			
## 53	11990	jio	Jio JioPhone 5G
64			
## 54	18999	motorola	Motorola Moto G82 5G
83			
## 55	13999	realme	Realme 10
74			
## 56	14965	realme	Realme 9i 5G
75			
## 57	74999	apple	Apple iPhone 14 Plus
82			
## 58	10999	xiaomi	Xiaomi Redmi Note 10S
78			
## 59	84990	samsung	Samsung Galaxy S23 Plus
89			
## 60	10499	motorola	Motorola Moto G32
75			
## 61	17990	xiaomi	Xiaomi Redmi Note 13 Pro 5G
78			
## 62	29990	vivo	Vivo S16
85			
## 63	18499	samsung	Samsung Galaxy A23
79			
## 64	16499	vivo	Vivo Y22 (6GB RAM + 128GB)
75			
## 65	14999	poco	Poco M4 Pro 5G (6GB RAM + 128GB)
81			
## 66	35499	vivo	Vivo S16 Pro
86			
## 67	60999	oneplus	OnePlus 10 Pro 5G
89			
## 68	32999	xiaomi	Xiaomi Redmi Note 12 Pro Plus (12GB RAM + 256GB)
87			
## 69	15999	samsung	Samsung Galaxy F23 5G
78			
## 70	99990	oppo	Oppo Find N Fold
NA			

## 71	9499	oppo	OPPO A17K
62			
## 72	27994	vivo	Vivo V23 5G (12GB RAM + 256GB)
86			
## 73	13989	iqoo	iQOO Z6 Lite 5G
75			
## 74	44999	oneplus	OnePlus 10T
85			
## 75	13999	xiaomi	Xiaomi Redmi Note 10T 5G (6GB RAM +128GB)
79			
## 76	6190	gionee	Gionee G13 Pro
NA			
## 77	119900	apple	Apple iPhone 13 Pro
83			
## 78	27660	oppo	OPPO F22 Pro
83			
## 79	24999	samsung	Samsung Galaxy A34 5G
75			
## 80	8388	xiaomi	Xiaomi Redmi 10A (4GB RAM + 64GB)
66			
## 81	15999	motorola	Motorola Moto G72 4G
83			
## 82	20999	samsung	Samsung Galaxy A14 5G (8GB RAM + 128GB)
82			
## 83	13999	realme	Realme 9 5G
75			
## 84	19990	vivo	Vivo T1 5G (8GB RAM + 128GB)
83			
## 85	13999	samsung	Samsung Galaxy M13 5G
75			
## 86	22999	motorola	Motorola Edge 30 5G
83			
## 87	22999	samsung	Samsung Galaxy A23 5G
79			
## 88	16999	oppo	OPPO K10 5G
79			
## 89	14290	xiaomi	Xiaomi Redmi Note 11 (6GB RAM + 128GB)
80			
## 90	41999	samsung	Samsung Galaxy A73 5G
NA			
## 91	13489	vivo	Vivo Y21 2021
69			
## 92	22990	oneplus	OnePlus Ace Racing Edition 5G
83			
## 93	16499	motorola	Motorola Moto G62 (8GB RAM + 128GB)
84			
## 94	73999	vivo	Vivo X90 Pro Plus 5G
NA			
## 95	9999	realme	Realme C33 (4GB RAM + 64GB)
67			

## 96	12499	realme	Realme 9i
75			
## 97	12499	oppo	OPPO A17
72			
## 98	59999	iqoo	iQOO 11 5G
88			
## 99	106990	vivo	Vivo X Fold 5G
NA			
## 100	15990	vivo	Vivo T1 5G
78			
## 101	119990	apple	Apple iPhone 14 Pro
75			
## 102	19999	xiaomi	Xiaomi Redmi Note 11 Pro Max 5G
83			
## 103	23990	motorola	Motorola Moto S30 Pro
83			
## 104	12999	realme	Realme 10s
80			
## 105	19990	oppo	OPPO F19 Pro Plus 5G
82			
## 106	58990	xiaomi	Xiaomi 13 Pro 5G
NA			
## 107	43999	vivo	Vivo V27 Pro
87			
## 108	49999	samsung	Samsung Galaxy S22 5G
86			
## 109	15999	vivo	Vivo T1 44W (6GB RAM + 128GB)
79			
## 110	36999	oneplus	OnePlus 10R 5G (12GB RAM + 256GB)
87			
## 111	39999	tecno	Tecno Phantom X2
85			
## 112	51999	apple	Apple iPhone 12
74			
## 113	22999	xiaomi	Xiaomi Redmi K50i 5G
82			
## 114	31999	samsung	Samsung Galaxy A53 5G
87			
## 115	6171	xiaomi	Xiaomi Redmi A1
NA			
## 116	29340	oppo	OPPO Reno8 5G
83			
## 117	25289	samsung	Samsung Galaxy M53 5G (8GB RAM + 128GB)
87			
## 118	21788	iqoo	iQOO Z6 Pro 5G
78			
## 119	69999	tesla	Tesla Pi Phone
83			
## 120	70990	samsung	Samsung Galaxy S23
88			

## 121	34999	motorola	Motorola Edge 30 Pro 5G
89			
## 122	33900	oneplus	OnePlus Nord 2T (12GB RAM + 256GB)
85			
## 123	29999	google	Google Pixel 6A
71			
## 124	18999	infinix	Infinix Note 12 Pro 5G
84			
## 125	19499	samsung	Samsung Galaxy M33 5G (8GB RAM + 128GB)
84			
## 126	24994	vivo	Vivo V23 5G
83			
## 127	10999	motorola	Motorola Moto G42
78			
## 128	24999	oneplus	OnePlus Nord CE 2 Lite 5G (8GB RAM + 256GB)
85			
## 129	25999	samsung	Samsung Galaxy A33 5G
82			
## 130	34990	google	Google Pixel 7A
69			
## 131	13466	xiaomi	Xiaomi Redmi 11 Prime 5G
74			
## 132	9999	xiaomi	Xiaomi Redmi Note 10 Lite
76			
## 133	7999	motorola	Motorola Moto E40
71			
## 134	28249	nothing	Nothing Phone 1 (8GB RAM + 256GB)
86			
## 135	16499	poco	Poco X4 Pro 5G (6GB RAM + 128GB)
82			
## 136	22999	xiaomi	Xiaomi Redmi Note 11 Pro Plus 5G (8GB RAM + 256GB)
87			
## 137	46999	apple	Apple iPhone 11 (128GB)
75			
## 138	13999	realme	Realme C35 (6GB RAM + 128GB)
74			
## 139	13490	oppo	OPPO K10
78			
## 140	28999	iqoo	iQOO Neo 6 5G
82			
## 141	15499	iqoo	iQOO Z6 5G
78			
## 142	39999	oppo	OPPO Reno 9 Pro 5G
86			
## 143	12999	poco	Poco M4 Pro 5G
76			
## 144	4499	jio	Jio Phone 3
NA			
## 145	14999	oneplus	OnePlus Clover
69			

## 146	8499	samsung	Samsung Galaxy F04
68			
## 147	24990	iqoo	iQOO 7
83			
## 148	16999	samsung	Samsung Galaxy M34 5G
84			
## 149	9589	xiaomi	Xiaomi Redmi 10
71			
## 150	40999	apple	Apple iPhone 12 Mini
74			
## 151	19988	xiaomi	Xiaomi Redmi Note 12 (6GB RAM + 128GB)
79			
## 152	11999	motorola	Motorola Moto G52
75			
## 153	142990	apple	Apple iPhone 15 Pro Max
79			
## 154	30990	oppo	Oppo A98
87			
## 155	19499	infinix	Infinix Zero 5G 2023
85			
## 156	5299	realme	Realme C30
NA			
## 157	25969	oppo	OPPO F21 Pro 5G
82			
## 158	28999	realme	Realme 11 Pro
82			
## 159	94990	oppo	Oppo Find N2 5G
NA			
## 160	14999	realme	Realme 9 4G
81			
## 161	14999	cola	Cola Phone
74			
## 162	129900	apple	Apple iPhone 13 Pro Max
84			
## 163	58990	oppo	Oppo Reno 10 Pro Plus
88			
## 164	41990	vivo	Vivo X90 5G
88			
## 165	10999	samsung	Samsung Galaxy F13
74			
## 166	11999	xiaomi	Xiaomi Redmi Note 10S (6GB RAM + 128GB)
79			
## 167	16999	realme	Realme 10 (8GB RAM + 128GB)
79			
## 168	30990	iqoo	iQOO 9 SE 5G
83			
## 169	17999	infinix	Infinix Hot 20
75			
## 170	5499	letv	Letv Y1 Pro
NA			

## 171	20499	xiaomi	Xiaomi Redmi Note 13 Pro Max 5G
83			
## 172	20490	realme	Realme Narzo 50 Pro 5G
81			
## 173	15490	oppo	OPPO A74 5G
77			
## 174	29990	apple	Apple iPhone 9
61			
## 175	15499	iqoo	iQOO Z6 Lite (6GB RAM + 128GB)
79			
## 176	11999	xiaomi	Xiaomi Redmi Note 11SE
80			
## 177	10999	realme	Realme Narzo 50
74			
## 178	21990	vivo	Vivo Y75 5G
82			
## 179	31999	vivo	Vivo V25 (12GB RAM + 256GB)
85			
## 180	11999	poco	POCO M4 Pro 4G
77			
## 181	36999	infinix	Infinix Zero Ultra
89			
## 182	6999	tecno	Tecno Spark Go 2023
62			
## 183	39999	motorola	Motorola Moto X40
89			
## 184	14999	samsung	Samsung Galaxy F24 5G
78			
## 185	14499	realme	Realme 10 5G
79			
## 186	27999	oneplus	OnePlus Nord 3 5G
84			
## 187	20499	motorola	Motorola Moto G82 (8GB RAM + 128GB)
86			
## 188	8099	ikall	iKall Z19 Pro
60			
## 189	10999	leeco	LeEco S1 Pro
65			
## 190	3499	realme	Realme C2s
63			
## 191	9990	duoqin	Duoqin F22 Pro
NA			
## 192	34999	samsung	Samsung Galaxy M54 5G
85			
## 193	46999	nokia	Nokia N73 5G
NA			
## 194	39999	motorola	Motorola Edge 30 Fusion 5G
88			
## 195	11828	realme	Realme C35
70			

## 196	45999	oppo	OPPO Reno 8 Pro House of Dragon Edition
86			
## 197	18999	oneplus	OnePlus Nord CE 3 Lite 5G
81			
## 198	17999	poco	Poco X4 Pro 5G (8GB RAM + 128GB)
84			
## 199	8499	samsung	Samsung Galaxy M04
66			
## 200	17999	oppo	OPPO A77s
76			
## 201	14450	samsung	Samsung Galaxy A13
75			
## 202	54999	motorola	Motorola Edge 30 Ultra
NA			
## 203	71999	xiaomi	Xiaomi 13 Ultra 5G
NA			
## 204	12999	motorola	Motorola Moto G52 (6GB RAM + 128GB)
79			
## 205	11499	poco	Poco M4 5G
75			
## 206	35999	nothing	Nothing Phone 1 (12GB RAM + 256GB)
87			
## 207	34999	samsung	Samsung Galaxy A54 5G
76			
## 208	11999	tecno	Tecno Pova 4
73			
## 209	27994	xiaomi	Xiaomi Redmi Note 12 Pro (8GB RAM + 256GB)
82			
## 210	139990	apple	Apple iPhone 14 Pro Max (256GB)
77			
## 211	39999	vivo	Vivo V25 Pro (12GB RAM + 256GB)
86			
## 212	15499	realme	Realme 9 5G (6GB RAM + 128GB)
79			
## 213	18999	realme	Realme 9 Pro 5G
80			
## 214	10999	lava	Lava Blaze 5G
73			
## 215	27999	honor	Honor X9a
81			
## 216	81999	google	Google Pixel 7 Pro 5G
NA			
## 217	9999	tecno	Tecno Pova 3
74			
## 218	31994	vivo	Vivo V23 Pro 5G
85			
## 219	9299	samsung	Samsung Galaxy A04e
65			
## 220	29990	xiaomi	Xiaomi Redmi K60
84			

## 221	25900	realme	Realme 9 Pro Plus 5G
78			
## 222	16999	realme	Realme 9i 5G (6GB RAM + 128GB)
78			
## 223	24999	motorola	Motorola Edge 30 5G (8GB RAM + 128GB)
85			
## 224	12188	xiaomi	Xiaomi Redmi Note 11 (6GB RAM + 64GB)
79			
## 225	8999	vivo	Vivo Y02
NA			
## 226	7499	poco	POCO C31 (4GB RAM + 64GB)
68			
## 227	17999	realme	Realme Narzo 50 5G
79			
## 228	24999	realme	Realme GT Neo 3T
79			
## 229	45999	oppo	OPPO Reno 8 Pro 5G
86			
## 230	65499	oneplus	OnePlus 10 Pro 5G (12GB RAM + 256GB)
NA			
## 231	58990	iqoo	iQOO 11 Pro 5G
89			
## 232	11999	vivo	Vivo T1x 4G
74			
## 233	11999	xiaomi	Xiaomi Redmi 10 Power
77			
## 234	18990	oppo	OPPO A58
76			
## 235	14499	vivo	Vivo T1 44W
77			
## 236	106990	xiaomi	Xiaomi Mix Fold 2 5G
NA			
## 237	10499	vivo	Vivo Y16 (3GB RAM + 64GB)
66			
## 238	26990	oppo	OPPO Reno 8 Z
86			
## 239	19990	vivo	Vivo Y75 4G
82			
## 240	24999	xiaomi	Xiaomi Redmi Note 12 Explorer
89			
## 241	13969	oppo	OPPO A57 4G (4GB RAM + 64 GB)
69			
## 242	44999	samsung	Samsung Galaxy A75 5G
83			
## 243	24999	vivo	Vivo T1 Pro 5G (8GB RAM + 128GB)
84			
## 244	53100	google	Google Pixel 7 5G
86			
## 245	16999	xiaomi	Xiaomi Redmi Note 11T 5G (6GB RAM + 128GB)
81			

## 246	21899	oppo	OPPO F21s Pro 4G
82			
## 247	75999	apple	Apple iPhone 14 (256GB)
82			
## 248	25999	motorola	Motorola Moto G73
85			
## 249	46990	nubia	Nubia Red Magic 8 Pro 5G
84			
## 250	9999	motorola	Motorola Moto G31
75			
## 251	49999	tecno	Tecno Phantom X2 Pro
89			
## 252	17999	infinix	Infinix Zero 20
87			
## 253	16940	iqoo	iQOO Z6 5G (6GB RAM + 128GB)
80			
## 254	17990	xiaomi	Xiaomi Redmi Note 11 Pro 5G
81			
## 255	20990	oppo	OPPO A1 Pro
84			
## 256	51999	samsung	Samsung Galaxy S22 FE 5G
79			
## 257	64449	samsung	Samsung Galaxy S22 Plus 5G
87			
## 258	8990	vivo	Vivo U3x
71			
## 259	19999	motorola	Motorola Moto G23
77			
## 260	13499	poco	Poco M4 5G (6GB RAM + 128GB)
79			
## 261	15499	tecno	Tecno Pova 5G
78			
## 262	6499	poco	POCO C31
65			
## 263	71999	apple	Apple iPhone XR2
60			
## 264	36499	samsung	Samsung Galaxy A53 (8GB RAM + 256GB)
89			
## 265	15999	infinix	Infinix Note 12 5G
78			
## 266	31994	oppo	OPPO Reno7 Pro 5G
87			
## 267	34999	oneplus	OnePlus Ace 2
84			
## 268	18999	redmi	Redmi Note 11 Pro 2023
81			
## 269	39990	nothing	Nothing Phone 2
88			
## 270	16499	samsung	Samsung Galaxy A32 (8GB RAM + 128GB)
82			

## 271	54300	google	Google Pixel 6 Pro
89			
## 272	9999	infinix	Infinix Note 12i (2022)
73			
## 273	15990	xiaomi	Xiaomi Redmi 11 Prime 5G (6GB RAM + 128GB)
77			
## 274	22700	xiaomi	Xiaomi Redmi Note 11 Pro Plus 5G (8GB RAM + 128GB)
86			
## 275	50990	xiaomi	Xiaomi 12 Pro 5G
89			
## 276	64900	apple	Apple iPhone 13 Mini
79			
## 277	13799	tecno	Tecno Pova 3 (6GB RAM + 128GB)
77			
## 278	8999	realme	Realme C31 (4GB RAM + 64GB)
65			
## 279	89999	asus	Asus ROG Phone 6 Pro 5G
88			
## 280	21994	vivo	Vivo V23e 5G
84			
## 281	69990	apple	Apple iPhone 14 Mini
70			
## 282	12999	xiaomi	Xiaomi Redmi Note 10T 5G
75			
## 283	24990	iqoo	iQOO Neo 7 SE 5G
83			
## 284	19990	samsung	Samsung Galaxy A23 (8GB RAM + 128GB)
82			
## 285	26999	xiaomi	Xiaomi Redmi Note 12 Pro (8GB RAM + 128GB)
82			
## 286	19999	xiaomi	Xiaomi Redmi Note 12 Turbo
81			
## 287	16900	infinix	Infinix Note 12 Pro
83			
## 288	19999	infinix	Infinix Hot 20 (6GB RAM+ 128GB)
78			
## 289	182999	apple	Apple iPhone 14 Pro Max (1TB)
78			
## 290	12999	samsung	Samsung Galaxy M13
75			
## 291	15999	poco	Poco M4 Pro 5G (8GB RAM + 128GB)
82			
## 292	13999	xiaomi	Xiaomi Redmi Note 10S (8GB RAM + 128GB)
82			
## 293	7749	realme	Realme C11 2021 (4GB RAM + 64GB)
61			
## 294	24999	samsung	Samsung Galaxy A23 5G (8GB RAM + 128GB)
81			
## 295	59999	motorola	Motorola Edge 30 Ultra (12GB RAM + 256GB)
NA			

## 296	25895	oppo	OPPO F21s Pro
82			
## 297	46990	xiaomi	Xiaomi 13 5G
89			
## 298	7499	xiaomi	Xiaomi Redmi 10A
64			
## 299	7790	vivo	Vivo Y01A
60			
## 300	25999	xiaomi	Xiaomi Redmi K50i (8GB RAM + 256GB)
85			
## 301	6299	realme	Realme C30 (3GB RAM + 32GB)
60			
## 302	12999	motorola	Motorola Moto G51 5G
77			
## 303	11999	xiaomi	Xiaomi Redmi 10 (6GB RAM + 128GB)
75			
## 304	21890	xiaomi	Xiaomi Mi 11 Lite NE 5G
83			
## 305	69999	samsung	Samsung Galaxy Z Flip 3
84			
## 306	55999	apple	Apple iPhone 12 (128GB)
75			
## 307	55999	oneplus	OnePlus 10T (16GB RAM + 256GB)
87			
## 308	14999	samsung	Samsung Galaxy A13 (4GB RAM + 128GB)
75			
## 309	25994	oppo	OPPO Reno7 5G
85			
## 310	42999	oneplus	OnePlus 9RT 5G
85			
## 311	33499	samsung	Samsung Galaxy A53 5G (8GB RAM + 128GB)
89			
## 312	118999	samsung	Samsung Galaxy S22 Ultra 5G (12GB RAM + 512GB)
NA			
## 313	16999	motorola	Motorola Moto G71 5G
80			
## 314	6990	itel	itel S16 Pro
NA			
## 315	29990	vivo	Vivo Y100
82			
## 316	12944	samsung	Samsung Galaxy M13 5G (4GB RAM + 64GB)
71			
## 317	29990	poco	POCO X5 GT
84			
## 318	16999	honor	Honor X9 5G
80			
## 319	64999	iqoo	iQOO 11 (16GB RAM + 256GB)
89			
## 320	154998	samsung	Samsung Galaxy Z Fold 4
NA			

## 321 109999	royole	Royole FlexPai 2
87		
## 322 84999	apple	Apple iPhone 14 Plus (256GB)
83		
## 323 27499	samsung	Samsung Galaxy A33 5G (8GB RAM + 128GB)
85		
## 324 8999	tecno	Tecno Spark 9
69		
## 325 40480	google	Google Pixel 6
84		
## 326 17999	xiaomi	Xiaomi Redmi Note 10 Pro (6GB RAM + 128GB)
81		
## 327 105999	samsung	Samsung Galaxy S21 Ultra
NA		
## 328 8999	infinix	Infinix Hot 20 Play
67		
## 329 14999	vivo	Vivo T1x (6GB RAM + 128GB)
77		
## 330 19990	oppo	OPPO F23 Pro
82		
## 331 23399	iqoo	iQOO Z6 Pro 5G (8GB RAM + 128GB)
80		
## 332 41990	samsung	Samsung Galaxy A73 5G (8GB RAM + 256GB)
NA		
## 333 22998	realme	Realme 9 5G SE (8GB RAM + 128GB)
82		
## 334 25999	poco	Poco F4 5G
82		
## 335 11700	infinix	Infinix Note 12
74		
## 336 6499	samsung	Samsung Galaxy A03 Core
NA		
## 337 15999	motorola	Motorola Moto G60
84		
## 338 64800	oneplus	OnePlus 9 Pro
89		
## 339 14590	xiaomi	Xiaomi Redmi Note 11S
80		
## 340 7499	xiaomi	Xiaomi Redmi 9 Activ
68		
## 341 21999	tecno	Tecno Camon 19 Pro 5G
82		
## 342 11999	samsung	Samsung Galaxy A04
71		
## 343 12999	poco	POCO M4 Pro 4G (6GB RAM + 128GB)
79		
## 344 20990	oneplus	OnePlus Nord N20 5G
81		
## 345 72999	apple	Apple iPhone 13 (256GB)
79		

## 346	77990	oppo	Oppo Find X6 Pro
NA			
## 347	56999	vivo	Vivo X90 Pro 5G
NA			
## 348	21999	motorola	Motorola Moto G53
79			
## 349	9499	motorola	Motorola Moto G22
75			
## 350	7499	xiaomi	Xiaomi Redmi 9i Sport
66			
## 351	4649	jio	Jio JioPhone Next
NA			
## 352	18000	vivo	Vivo Y93
62			
## 353	38999	xiaomi	Xiaomi Redmi K60 Pro
85			
## 354	7145	realme	Realme C30s
NA			
## 355	14990	vivo	Vivo Y22s
77			
## 356	15499	oppo	OPPO A77
70			
## 357	9999	xiaomi	Xiaomi Redmi 10A Sport
69			
## 358	29999	poco	Poco F4 (12GB RAM + 256GB)
86			
## 359	15999	realme	Realme 9 4G (8GB RAM + 128GB)
84			
## 360	59990	xiaomi	Xiaomi 12T Pro 5G
89			
## 361	34990	iqoo	iQOO 9 5G
84			
## 362	45999	apple	Apple iPhone 12 Mini (128GB)
75			
## 363	119990	samsung	Samsung Galaxy S24 Ultra
85			
## 364	89990	oppo	OPPO Find N Flip
88			
## 365	50999	oneplus	OnePlus 10T (12GB RAM + 256GB)
87			
## 366	7999	tecno	Tecno Spark 9 (4GB RAM + 64GB)
65			
## 367	43999	samsung	Samsung Galaxy S21 FE 5G (8GB RAM + 256GB)
88			
## 368	18499	xiaomi	Xiaomi Redmi Note 11T 5G (8GB RAM + 128GB)
83			
## 369	134999	sony	Sony Xperia Pro-I
NA			
## 370	32999	vivo	Vivo V21 Pro
85			

## 371	13499	poco	Poco X3
80			
## 372	35489	samsung	Samsung Galaxy S20 FE
86			
## 373	20120	google	Google Pixel 4
78			
## 374	42999	samsung	Samsung Galaxy S10 Plus
81			
## 375	24999	realme	Realme 11 Pro Plus
78			
## 376	20999	oppo	OPPO F21 Pro 4G
82			
## 377	28994	realme	Realme GT 2 5G
84			
## 378	48900	samsung	Samsung Galaxy S21
88			
## 379	22494	samsung	Samsung Galaxy A71
86			
## 380	8990	vivo	Vivo Y02s
61			
## 381	6999	letv	Letv Y2 Pro
NA			
## 382	8890	tecno	Tecno Spark 8C (4GB RAM + 64GB)
63			
## 383	18498	iqoo	iQOO Z6 5G (8GB RAM + 128GB)
82			
## 384	23999	vivo	Vivo T1 Pro
81			
## 385	22994	realme	Realme 9 Pro Plus 5G (8GB RAM + 128GB)
81			
## 386	12990	samsung	Samsung Galaxy A04s
71			
## 387	14999	realme	Realme 9i (6GB RAM + 128GB)
78			
## 388	18499	realme	Realme 8 5G (8GB RAM + 128GB)
80			
## 389	14990	oppo	OPPO F19
78			
## 390	70990	oppo	OPPO Find N2 Flip
88			
## 391	12120	samsung	Samsung Galaxy M32 Prime Edition
75			
## 392	29990	oukitel	Oukitel WP19
84			
## 393	20999	realme	Realme 9 Pro 5G (8GB RAM + 128GB)
82			
## 394	11999	xiaomi	Xiaomi Redmi Note 10 Lite (6GB RAM + 128GB)
80			
## 395	17990	samsung	Samsung Galaxy A13 5G
73			

## 396	14990	xiaomi	Xiaomi Redmi Note 11 5G
77			
## 397	6490	itel	itel P36
NA			
## 398	34999	realme	Realme GT Neo 5
83			
## 399	149900	apple	Apple iPhone 15 Ultra
79			
## 400	6499	poco	Poco C50
NA			
## 401	104999	samsung	Samsung Galaxy Note 30 Ultra 5G
NA			
## 402	13999	realme	Realme 9i (4GB RAM + 128GB)
75			
## 403	16999	xiaomi	Xiaomi Redmi Note 11T 5G
79			
## 404	79999	vivo	Vivo X80 Pro 5G
NA			
## 405	36760	oppo	OPPO Reno 6 Pro 5G
87			
## 406	23499	xiaomi	Xiaomi Mi 11i 5G
81			
## 407	75990	asus	Asus ROG Phone 7
87			
## 408	21990	oppo	Oppo A77 5G
76			
## 409	18999	realme	Realme 9 5G SE
80			
## 410	7249	samsung	Samsung Galaxy A03
66			
## 411	16990	oneplus	OnePlus Nord N200
75			
## 412	23890	xiaomi	Xiaomi Mi 11X
80			
## 413	26380	oppo	OPPO Reno 6
83			
## 414	27999	realme	Realme X50 Pro 5G (12GB RAM + 256GB)
87			
## 415	10850	xiaomi	Xiaomi Redmi 10A (6GB RAM + 128GB)
70			
## 416	19999	redmi	Redmi Note 12 Pro Speed Edition
81			
## 417	129990	apple	Apple iPhone 14 Pro (256GB)
76			
## 418	19990	motorola	Motorola Moto G72
81			
## 419	41990	motorola	Motorola Moto X30 Pro
NA			
## 420	69990	xiaomi	Xiaomi 12S Ultra
NA			

## 421	39990	honor	Honor 70 5G
88			
## 422	74999	oneplus	OnePlus 10 Pro 5G (12GB RAM + 512GB)
NA			
## 423	36994	vivo	Vivo V23 Pro 5G (12GB RAM + 256GB)
87			
## 424	14700	oppo	OPPO A55 4G (6GB RAM + 128GB)
76			
## 425	34990	xiaomi	Xiaomi Mi 11T Pro 5G
86			
## 426	34999	nokia	Nokia X50 5G
76			
## 427	13990	xiaomi	Xiaomi Redmi Note 10
75			
## 428	650000	vertu	Vertu Signature Touch
62			
## 429	14859	samsung	Samsung Galaxy M32 Prime Edition (6GB RAM + 128GB)
79			
## 430	17999	tecno	Tecno Camon 19 Pro Mondrian Edition
84			
## 431	34990	poco	Poco F5
85			
## 432	14990	blu	BLU F91 5G
85			
## 433	8999	oppo	OPPO A16e
65			
## 434	8999	motorola	Motorola Moto E32
71			
## 435	15824	xiaomi	Xiaomi Redmi Note 11S (8GB RAM + 128GB)
84			
## 436	43900	apple	Apple iPhone SE 3 2022
NA			
## 437	22494	samsung	Samsung Galaxy A52 (8GB RAM + 128GB)
86			
## 438	19650	poco	Poco X3 Pro
82			
## 439	6999	xiaomi	Xiaomi Redmi 9A
61			
## 440	16499	samsung	Samsung Galaxy A32
80			
## 441	15999	motorola	Motorola Moto G13
75			
## 442	72999	asus	Asus ROG Phone 6 Batman Edition
88			
## 443	26999	xiaomi	Xiaomi Redmi Note 12 Pro Plus (6GB RAM + 128GB)
84			
## 444	6999	infinix	Infinix Smart 6 HD
NA			
## 445	130990	apple	Apple iPhone 15 Pro
75			

## 446	12787	realme	Realme C35 (4GB RAM + 128GB)
71			
## 447	9999	infinix	Infinix Hot 12
72			
## 448	54999	vivo	Vivo X80 5G
86			
## 449	15490	vivo	Vivo Y53s
79			
## 450	25999	tecno	Tecno Phantom X
84			
## 451	9499	samsung	Samsung Galaxy M04 (4GB RAM + 128GB)
68			
## 452	7999	redmi	Redmi 12C
70			
## 453	63990	asus	Asus ZenFone 9
86			
## 454	15990	sony	Sony Xperia L5 5G
73			
## 455	34949	iqoo	iQOO 9 SE 5G (12GB RAM + 256GB)
85			
## 456	8799	tecno	Tecno Spark 8 Pro
72			
## 457	12390	xiaomi	Xiaomi Redmi 10 Prime
74			
## 458	11499	samsung	Samsung Galaxy F22
73			
## 459	199990	xiaomi	Xiaomi Mi Mix Alpha
NA			
## 460	42990	oppo	OPPO Reno 10 Pro
86			
## 461	34999	nubia	Nubia Z50
82			
## 462	11999	samsung	Samsung Galaxy F13 (4GB RAM + 128GB)
75			
## 463	10499	nokia	Nokia G11 Plus
70			
## 464	8910	infinix	Infinix Hot 12 Play
66			
## 465	24990	vivo	Vivo T2 5G
85			
## 466	17999	oppo	OPPO Reno7 Z 5G
84			
## 467	22999	xiaomi	Xiaomi Mi 11 Lite NE 5G (8GB RAM + 128GB)
86			
## 468	6490	realme	Realme Narzo 50i
NA			
## 469	21990	infinix	Infinix Zero X Pro
85			
## 470	12364	samsung	Samsung Galaxy M32
76			

## 471	39990	samsung	Samsung Galaxy A82 5G
86			
## 472	11999	xiaomi	Xiaomi Poco F1
77			
## 473	7499	vivo	Vivo Y25
NA			
## 474	3990	lyf	Lyf Earth 1
60			
## 475	10499	motorola	Motorola Moto E13
65			
## 476	6299	tecno	Tecno Pop 6 Pro
NA			
## 477	5990	itel	Itel A24 Pro
NA			
## 478	113990	vivo	Vivo X Fold Plus
NA			
## 479	239999	huawei	Huawei Mate 50 RS Porsche Design
81			
## 480	21999	samsung	Samsung Galaxy F63
84			
## 481	15999	iqoo	iQOO Z6 4G (6GB RAM + 128GB)
80			
## 482	69990	sony	Sony Xperia 5 II
86			
## 483	12990	vivo	Vivo Y3 (4GB RAM + 128GB)
71			
## 484	92980	sony	Sony Xperia 1 IV (12GB RAM + 512GB)
NA			
## 485	15999	tecno	Tecno Pova 4 Pro
74			
## 486	23999	huawei	Huawei Nova 10 SE
84			
## 487	12999	vivo	Vivo T1x (4GB RAM + 128GB)
75			
## 488	60990	nubia	Nubia Red Magic 7S Pro
86			
## 489	8859	motorola	Motorola Moto E32s (4GB RAM + 64GB)
67			
## 490	33749	iqoo	iQOO Neo 6 5G (12GB RAM + 256GB)
84			
## 491	15990	samsung	Samsung Galaxy A15
63			
## 492	24990	poco	POCO X4 GT 5G
84			
## 493	14999	realme	Realme Narzo 50 5G (4GB RAM + 128GB)
76			
## 494	17990	vivo	Vivo Y77 5G
76			
## 495	24990	honor	Honor 60 SE 5G
75			

## 496	11600	xiaomi	Xiaomi Redmi 11 Prime
74			
## 497	8299	realme	Realme C31
62			
## 498	11999	motorola	Motorola Moto G31 (6GB RAM+ 128GB)
78			
## 499	89999	samsung	Samsung Galaxy Z Flip 4 5G
88			
## 500	27999	oneplus	OnePlus 6 (8GB RAM + 128GB)
77			
## 501	15990	google	Google Pixel 2 XL
69			
## 502	7289	xiaomi	Xiaomi Redmi A1 Plus
60			
## 503	30990	honor	Honor 70 5G (8GB RAM + 256GB)
86			
## 504	15499	realme	Realme Narzo 50 (6GB RAM + 128GB)
77			
## 505	8499	vivo	Vivo Y15s
66			
## 506	14490	samsung	Samsung Galaxy M32 (6GB RAM + 128GB)
80			
## 507	15490	samsung	Samsung Galaxy F42 5G
80			
## 508	14990	realme	Realme Q5 5G
78			
## 509	15999	poco	POCO M3 Pro 5G
75			
## 510	36000	google	Google Pixel 5
82			
## 511	69999	oneplus	OnePlus 12 Pro
NA			
## 512	26990	xiaomi	Xiaomi Redmi Note 12 Discovery Edition
86			
## 513	10630	samsung	Samsung Galaxy M13 (4GB RAM + 64GB)
71			
## 514	42990	oppo	Oppo Reno 8 Pro (8GB RAM + 256GB)
85			
## 515	24990	vivo	Vivo Y78 5G
77			
## 516	14489	iqoo	iQOO Z6 4G
77			
## 517	16490	oppo	OPPO A76
73			
## 518	24494	realme	Realme 9 Pro Plus 5G (8GB RAM + 256GB)
82			
## 519	7999	vivo	Vivo Y01
61			
## 520	23990	motorola	Motorola Moto Edge S30 5G
85			

## 521	49959	realme	Realme GT 2 Pro 5G
89			
## 522	129900	apple	Apple iPhone 13 Pro (256GB)
83			
## 523	19990	vivo	Vivo Y73 2021
80			
## 524	14990	samsung	Samsung Galaxy F14
67			
## 525	23269	vivo	Vivo V20
85			
## 526	13999	xiaomi	Xiaomi Redmi Note 9 Pro
75			
## 527	35389	oneplus	OnePlus 10R Prime Edition
85			
## 528	79700	google	Google Pixel 6 Pro (12GB RAM + 256GB)
NA			
## 529	9499	nokia	Nokia C31
62			
## 530	12340	infinix	Infinix Hot 12 Pro (8GB RAM+ 128GB)
76			
## 531	10799	poco	Poco M5
74			
## 532	14990	xiaomi	Xiaomi Redmi 10C (4GB RAM + 128GB)
73			
## 533	61990	zte	ZTE Axon 40 Ultra 5G
89			
## 534	51880	xiaomi	Xiaomi 12 Pro 5G (12GB RAM + 256GB)
NA			
## 535	16990	oppo	OPPO K10 (8GB RAM + 128GB)
80			
## 536	19990	huawei	Huawei Nova 9 SE
84			
## 537	57999	samsung	Samsung Galaxy S22 5G (8GB RAM + 256GB)
87			
## 538	46990	lenovo	Lenovo Legion Y90
87			
## 539	20990	vivo	Vivo Y55 5G
77			
## 540	17990	nokia	Nokia X100 5G
82			
## 541	17499	realme	Realme 8s 5G (8GB RAM + 128GB)
82			
## 542	17999	realme	Realme 8s 5G
80			
## 543	49990	nokia	Nokia X60 Pro 5G
NA			
## 544	14999	poco	Poco X5
74			
## 545	19980	xiaomi	Xiaomi Redmi Note 10 Pro Max (6GB RAM + 128GB)
82			

## 546	35990	iqoo	iqOO 7 (12GB RAM + 256GB)
85			
## 547	15999	realme	Realme 8
78			
## 548	41999	samsung	Samsung Galaxy S20
88			
## 549	25999	xiaomi	Xiaomi Redmi K60E
83			
## 550	7990	motorola	Motorola Moto E32s
65			
## 551	29990	oneplus	OnePlus Nord 3T 5G
84			
## 552	27990	oppo	OPPO F23 Pro Plus 5G
83			
## 553	29999	poco	Poco F5 Pro
84			
## 554	8999	oppo	OPPO A16e (4GB RAM + 64GB)
68			
## 555	13999	poco	POCO M4 Pro 4G (8GB RAM + 128GB)
81			
## 556	11499	realme	Realme Narzo 50A
71			
## 557	39999	asus	Asus ROG Phone 5s 5G
87			
## 558	27999	realme	Realme GT Master Edition 5G
84			
## 559	24499	samsung	Samsung Galaxy A32 5G
79			
## 560	60999	nubia	Nubia Red Magic 8 Pro Plus
86			
## 561	110999	samsung	Samsung Galaxy Z Fold 3
89			
## 562	54999	lg	LG Wing 5G
89			
## 563	16490	xiaomi	Xiaomi Redmi Note 9 Pro Max
80			
## 564	24990	samsung	Samsung Galaxy A52
83			
## 565	25000	vivo	Vivo Y71
NA			
## 566	9950	samsung	Samsung Galaxy A04e (3GB RAM + 64GB)
66			
## 567	12999	oppo	Oppo A56s
75			
## 568	19999	oppo	Oppo Reno 8T 4G
83			
## 569	32999	oppo	OPPO Reno 10
84			
## 570	28498	nokia	Nokia G60
81			

## 571	15998	oppo	OPPO A77 (4GB RAM + 128 GB)
71			
## 572	59990	motorola	Motorola Edge 40 Pro 5G
89			
## 573	16990	oppo	Oppo K10x 5G
78			
## 574	27999	iqoo	iQOO Z6 Pro 5G (12GB RAM + 256GB)
82			
## 575	13499	nokia	Nokia G21 (6GB RAM + 128GB)
75			
## 576	16499	samsung	Samsung Galaxy A13 (6GB RAM + 128GB)
78			
## 577	10999	oppo	OPPO A16K (4GB RAM + 64GB)
66			
## 578	13990	xiaomi	Xiaomi Redmi 10C
71			
## 579	9999	tecno	Tecno Spark 9 Pro
74			
## 580	31994	realme	Realme GT Neo 3 5G
83			
## 581	24820	xiaomi	Xiaomi 11i HyperCharge 5G
83			
## 582	22990	iqoo	iQOO Neo 6 SE 5G
83			
## 583	59990	iqoo	iQOO 9 Pro 5G
88			
## 584	8999	realme	Realme Narzo 50i (4GB RAM + 64GB)
62			
## 585	10499	xiaomi	Xiaomi Redmi 9 Activ (6GB RAM + 128GB)
72			
## 586	7499	jio	Jio JioPhone Next (3GB RAM + 32GB)
NA			
## 587	9990	xiaomi	Xiaomi Redmi Note 8 2021
75			
## 588	12490	xiaomi	Xiaomi Redmi Note 10 5G
76			
## 589	13990	vivo	Vivo Y20G
69			
## 590	17990	samsung	Samsung Galaxy A22 5G
79			
## 591	24999	vivo	Vivo V21
83			
## 592	21999	realme	Realme 7 Pro (8GB RAM + 128GB)
85			
## 593	19999	oneplus	OnePlus Nord Lite
77			
## 594	99999	samsung	Samsung Galaxy S20 Ultra 5G
NA			
## 595	109900	apple	Apple iPhone 11 Pro Max
77			

## 596	52990	apple	Apple iPhone 7s
NA			
## 597	19990	sony	Sony Xperia Ace IV
80			
## 598	11499	samsung	Samsung Galaxy A04e (4GB RAM + 128GB)
69			
## 599	13999	xiaomi	Xiaomi Redmi Note 12 4G
75			
## 600	22990	oukitel	Oukitel WP21
82			
## 601	28990	vivo	Vivo V28
84			
## 602	27999	poco	Poco F4 5G (8GB RAM + 128GB)
85			
## 603	19990	xiaomi	Xiaomi Redmi Note 11T Pro 5G
82			
## 604	22999	realme	Realme Narzo 50 Pro 5G (8GB RAM + 128GB)
83			
## 605	17999	vivo	Vivo T1 44W (8GB RAM + 128GB)
82			
## 606	15499	xiaomi	Xiaomi Redmi Note 11S (6GB RAM + 128GB)
81			
## 607	17990	lava	Lava Agni 5G
84			
## 608	13999	realme	Realme 8i (6GB RAM + 128GB)
77			
## 609	13499	oppo	OPPO A55 4G
73			
## 610	14799	poco	POCO M3 Pro 5G (6GB RAM + 128GB)
79			
## 611	6999	realme	Realme C21Y
62			
## 612	11999	oppo	OPPO A16
69			
## 613	23994	vivo	Vivo V21 5G
85			
## 614	139900	apple	Apple iPhone 12 Pro (512GB)
80			
## 615	69999	sony	Sony Xperia 1 II
89			
## 616	57999	motorola	Motorola Edge Plus
89			
## 617	86000	samsung	Samsung Galaxy Note 20
87			
## 618	11999	samsung	Samsung Galaxy A12
71			
## 619	14999	xiaomi	Xiaomi Redmi Note 12 Pro 4G
77			
## 620	26499	realme	Realme GT Neo 3T (8GB RAM + 128GB)
81			

## 621	8990	realme	Realme C30s (4GB RAM + 64GB)
62			
## 622	95999	apple	Apple iPhone 14 (512GB)
82			
## 623	47990	iqoo	iQOO 9T 5G
85			
## 624	17990	tecno	Tecno Camon 19 Pro
81			
## 625	22999	oneplus	OnePlus Nord 2 Lite 5G
83			
## 626	99990	samsung	Samsung Galaxy S22 Ultra 5G (8GB RAM + 128GB)
NA			
## 627	39999	poco	POCO F4 GT 5G
86			
## 628	38999	xiaomi	Xiaomi 11T Pro 5G (12GB RAM + 256GB)
88			
## 629	12490	vivo	Vivo Y10
63			
## 630	39990	samsung	Samsung Galaxy A83 5G
86			
## 631	16685	vivo	Vivo Y33s
80			
## 632	69990	huawei	Huawei Mate 40 Pro 4G
NA			
## 633	6999	micromax	Micromax IN 2B
66			
## 634	71999	asus	Asus ROG Phone 6
86			
## 635	26999	realme	Realme X7 Max
84			
## 636	16499	realme	Realme 8 5G
75			
## 637	17990	oppo	OPPO A55 5G
74			
## 638	8999	xiaomi	Xiaomi Redmi 9
68			
## 639	39900	apple	Apple iPhone SE 2020
63			
## 640	5999	letv	Letv Y1 Pro Plus
60			
## 641	34999	oneplus	OnePlus Nord 5
76			
## 642	16990	vivo	Vivo Y73T
77			
## 643	22990	oppo	OPPO Reno 9 Z
84			
## 644	19990	vivo	Vivo V25e
84			
## 645	10850	infinix	Infinix Hot 12 Pro
74			

## 646	13499	realme	Realme Narzo 50 5G (4GB RAM + 64GB)
75			
## 647	6699	itel	itel Vision 3
61			
## 648	17999	oppo	OPPO A96 4G
80			
## 649	13990	xiaomi	Xiaomi Redmi Note 11E 5G
69			
## 650	94990	honor	Honor Magic 4 Pro Plus 5G
NA			
## 651	8968	tecno	Tecno Spark 9T
72			
## 652	7320	infinix	Infinix Smart 6
60			
## 653	8999	realme	Realme C25Y (4GB RAM + 64GB)
69			
## 654	13999	samsung	Samsung Galaxy A12 (6GB RAM + 128GB)
75			
## 655	14746	tecno	Tecno Camon 19
79			
## 656	16999	xiaomi	Xiaomi Redmi Note 10 Pro 5G
83			
## 657	25990	xiaomi	Xiaomi Mi 11X 5G (8GB RAM + 128GB)
83			
## 658	16499	xiaomi	Xiaomi Redmi Note 10 (6GB RAM + 128GB)
78			
## 659	19999	xiaomi	Xiaomi Redmi Note 10 Pro Max
81			
## 660	23500	xiaomi	Xiaomi Mi 10T 5G
80			
## 661	54999	lg	LG Velvet 5G
85			
## 662	19499	motorola	Motorola One Fusion Plus
80			
## 663	79990	lg	LG V60 ThinQ
NA			
## 664	39999	samsung	Samsung Galaxy Note 10 Lite
83			
## 665	92999	samsung	Samsung Galaxy Note 10 Plus 5G
89			
## 666	32990	iqoo	iQOO Neo 7 Racing Edition
84			
## 667	14499	samsung	Samsung Galaxy A04s (4GB RAM + 128GB)
72			
## 668	13999	vivo	Vivo Y35 5G
70			
## 669	7999	vivo	Vivo Y02 (2GB RAM + 32GB)
NA			
## 670	5785	itel	itel Vision 3 (2GB RAM + 32GB)
NA			

## 671	12990	xiaomi	Xiaomi Redmi Note 11R
73			
## 672	19990	poco	Poco M6 Pro
84			
## 673	23990	oppo	OPPO A97 5G
79			
## 674	17999	samsung	Samsung Galaxy A24
77			
## 675	16999	infinix	Infinix Note 13 Pro
80			
## 676	9999	honor	Honor Play 30
68			
## 677	8299	infinix	Infinix Smart 6 Plus
63			
## 678	82199	sony	Sony Xperia 5 IV 5G
89			
## 679	49990	nubia	Nubia Z40 Pro 5G
84			
## 680	11999	nokia	Nokia G21
71			
## 681	29990	xiaomi	Xiaomi 12 Lite 5G
82			
## 682	92249	oppo	Oppo Find N 5G
NA			
## 683	139900	apple	Apple iPhone 13 Pro Max (256GB)
84			
## 684	14990	vivo	Vivo Y21s
74			
## 685	15988	oppo	OPPO F19s
79			
## 686	11725	samsung	Samsung Galaxy M21 2021
76			
## 687	17994	oppo	OPPO F19 Pro
80			
## 688	134999	oppo	OPPO X 2021
86			
## 689	25595	oneplus	OnePlus Nord N10
81			
## 690	7499	gionee	Gionee M12 Pro
67			
## 691	10890	poco	Poco M2
74			
## 692	18990	oppo	OPPO F17 Pro
83			
## 693	19990	motorola	Motorola Moto G 5G
82			
## 694	15990	samsung	Samsung Galaxy A50s
80			
## 695	58999	samsung	Samsung Galaxy Note 10 Plus
89			

## 696	12500	vivo	Vivo Y15
71			
## 697	29999	vivo	Vivo S1 Pro
82			
## 698	31990	vivo	Vivo T3 Pro
86			
## 699	29999	vivo	Vivo V21s
86			
## 700	107990	asus	Asus ROG Phone 6D Ultimate
NA			
## 701	31990	motorola	Motorola Moto Edge 30 Neo
84			
## 702	48990	xiaomi	Xiaomi 12T
87			
## 703	99990	huawei	Huawei Mate 50 Pro 5G
85			
## 704	9499	realme	Realme C32
65			
## 705	162990	huawei	Huawei Mate Xs 2
89			
## 706	24999	iqoo	iQOO Z7 Pro 5G
80			
## 707	82990	apple	Apple iPhone 15
72			
## 708	15999	infinix	Infinix Note 11S (8GB RAM + 128GB)
79			
## 709	8999	tecno	Tecno Spark 8 (4GB RAM + 64GB)
64			
## 710	17990	oppo	Oppo A56 5G
73			
## 711	82990	vivo	Vivo X80 Pro Plus 5G
NA			
## 712	12999	xiaomi	Xiaomi Redmi 10 Prime (6GB RAM + 128GB)
77			
## 713	29990	huawei	Huawei Nova 9
83			
## 714	6999	tecno	Tecno Pop 5 Go
NA			
## 715	60999	huawei	Huawei P50 Pro 4G
NA			
## 716	27990	xiaomi	Xiaomi Redmi K50 5G
83			
## 717	5249	nokia	Nokia C01 Plus
NA			
## 718	14999	realme	Realme Q3
80			
## 719	44990	oppo	OPPO Reno 6 Pro Plus 5G
87			
## 720	22490	motorola	Motorola Edge S
87			

## 721	50990	oppo	Oppo Find X3 Pro
NA			
## 722	11499	poco	Poco M3
75			
## 723	5990	itel	itel S16
NA			
## 724	27000	vivo	Vivo V20 Pro
84			
## 725	29999	xiaomi	Xiaomi Mi 10T Pro 5G
86			
## 726	27990	vivo	Vivo V19 (8GB RAM + 256GB)
84			
## 727	74999	samsung	Samsung Galaxy S20 5G
89			
## 728	9990	vivo	Vivo U3
72			
## 729	19990	oppo	Oppo K5 (8GB RAM + 128GB)
82			
## 730	13279	realme	Realme XT
75			
## 731	11000	vivo	Vivo Y12 (3GB RAM + 64GB)
68			
## 732	12999	xiaomi	Xiaomi Poco F1 (6GB RAM + 128GB)
78			
## 733	7299	poco	Poco C50 (3GB RAM + 32GB)
61			
## 734	7999	ikall	iKall Z19
61			
## 735	54990	xiaomi	Xiaomi Redmi K60 Gaming Edition
86			
## 736	49990	vivo	Vivo S17 Pro
77			
## 737	54990	honor	Honor 80 Pro Plus
NA			
## 738	49990	apple	Apple iPhone SE 4
60			
## 739	15499	tecno	Tecno Pova Neo 5G
71			
## 740	169900	apple	Apple iPhone 14 Pro Max (512GB)
78			
## 741	53990	google	Google Pixel 8
75			
## 742	18990	vivo	Vivo T2x 5G
80			
## 743	16999	motorola	Motorola Moto G52 5G
76			
## 744	34999	motorola	Motorola Edge 40 5G
86			
## 745	82990	vivo	Vivo X Note 5G (12GB RAM + 512GB)
NA			

## 746	46999	realme	Realme GT 2 Pro 5G (12GB RAM + 256GB)
89			
## 747	8499	vivo	Vivo Y15C
66			
## 748	16999	honor	Honor X8
76			
## 749	11499	samsung	Samsung Galaxy A03 (4GB RAM + 64GB)
69			
## 750	88999	samsung	Samsung Galaxy S22 Plus 5G (8GB RAM + 256GB)
88			
## 751	15990	vivo	Vivo Y33T
81			
## 752	24990	xiaomi	Xiaomi 11i 5G (8GB RAM + 128GB)
83			
## 753	79990	oppo	Oppo Find X5 Pro 5G
NA			
## 754	6249	tecno	Tecno Spark Go 2022
61			
## 755	12499	vivo	Vivo Y21e
69			
## 756	6499	xiaomi	Xiaomi Redmi 9A Sport
61			
## 757	179900	apple	Apple iPhone 13 Pro Max (1TB)
86			
## 758	11990	vivo	Vivo Y12G (3GB RAM + 64GB)
68			
## 759	26990	vivo	Vivo V23e
82			
## 760	13499	samsung	Samsung Galaxy F22 (6GB RAM + 128GB)
76			
## 761	75999	xiaomi	Xiaomi 12 Ultra 5G
NA			
## 762	5999	micromax	Micromax IN 2C
60			
## 763	8499	samsung	Samsung Galaxy A03s
67			
## 764	11990	oppo	OPPO A54 (4GB RAM + 128GB)
71			
## 765	10990	xiaomi	Xiaomi Redmi 20X
77			
## 766	109990	xiaomi	Xiaomi Mi Mix Fold
NA			
## 767	16999	realme	Realme Narzo 30 5G
80			
## 768	12199	oppo	OPPO A54
70			
## 769	11490	oppo	Oppo A15s (4GB RAM + 128GB)
72			
## 770	5490	itel	itel A56
NA			

## 771	11499	xiaomi	Xiaomi Redmi 9 Power
74			
## 772	59450	samsung	Samsung Galaxy S21 Plus
88			
## 773	12799	poco	POCO M2 Pro
76			
## 774	83000	samsung	Samsung Galaxy S20 Plus
88			
## 775	14490	realme	Realme 6 Pro
80			
## 776	82990	huawei	Huawei P40 Pro
NA			
## 777	9490	vivo	Vivo Y11 (2019)
64			
## 778	25000	vivo	Vivo V15 Pro (8GB RAM +128GB)
78			
## 779	15000	vivo	Vivo Y95
65			
## 780	20990	vivo	Vivo V11i
70			
## 781	34999	samsung	Samsung Galaxy S9 Plus (128GB)
78			
## 782	29999	realme	Realme GT Neo 4T
80			
## 783	11999	vivo	Vivo Y53t
67			
## 784	12999	samsung	Samsung Galaxy A04 (4GB RAM + 128GB)
72			
## 785	124990	leitz	Leitz Phone 2
89			
## 786	28999	xiaomi	Xiaomi Redmi K60i
85			
## 787	12999	infinix	Infinix Hot 20S
77			
## 788	28499	realme	Realme GT Neo 3T (8GB RAM + 256GB)
82			
## 789	104999	apple	Apple iPhone 14 Plus (512GB)
83			
## 790	172999	apple	Apple iPhone 14 Pro (1TB)
77			
## 791	17990	xiaomi	Xiaomi Redmi 13 Prime 5G
79			
## 792	13774	xiaomi	Xiaomi Redmi 11 Prime (6GB RAM + 128GB)
76			
## 793	8999	nokia	Nokia C21 Plus (4GB RAM + 64GB)
64			
## 794	18990	oneplus	OnePlus Nord N300
75			
## 795	14999	tecno	Tecno Camon 19 Neo
77			

## 796	7999	realme	Realme Narzo 50i Prime
61			
## 797	39999	xiaomi	Xiaomi Redmi K50 Ultra 5G
85			
## 798	11990	oppo	OPPO A57 4G
67			
## 799	12999	infinix	Infinix Note 12 (6GB RAM + 128GB)
77			
## 800	54999	samsung	Samsung Galaxy S23 FE 5G
77			
## 801	24990	samsung	Samsung Galaxy M51s 5G
72			
## 802	59999	vivo	Vivo X80 5G (12GB RAM + 256GB)
88			
## 803	19999	poco	Poco X6 Pro 5G
72			
## 804	16999	infinix	Infinix Note 12 (G96)
79			
## 805	14999	samsung	Samsung Galaxy M14
60			
## 806	29990	vivo	Vivo T2 Pro 5G
76			
## 807	13990	xiaomi	Xiaomi Redmi 10 Prime Plus 5G
69			
## 808	17999	xiaomi	Xiaomi Redmi Note 11 Pro 4G
81			
## 809	11399	realme	Realme Narzo 50A Prime
73			
## 810	19990	vivo	Vivo Y55s 5G
79			
## 811	15499	vivo	Vivo Y21T
74			
## 812	6999	gionee	Gionee K10
NA			
## 813	12499	xiaomi	Xiaomi Redmi Note 10 Lite (4GB RAM + 128GB)
77			
## 814	91999	apple	Apple iPhone 13 (512GB)
80			
## 815	9690	infinix	Infinix Hot 11S
71			
## 816	32990	realme	Realme GT Explorer Master Edition
85			
## 817	42990	xiaomi	Xiaomi Mi 12 5G
87			
## 818	14999	cat	CAT S22 Flip
NA			
## 819	18699	xiaomi	Xiaomi Mi 11 Lite (8GB RAM + 128GB)
82			
## 820	10990	realme	Realme Q3i 5G
76			

## 821	30990	xiaomi	Xiaomi Mi 11X Pro
85			
## 822	59999	lenovo	Lenovo Legion Pro 2
89			
## 823	23999	samsung	Samsung Galaxy M62
83			
## 824	9999	realme	Realme Q2i
69			
## 825	119900	apple	Apple iPhone 12 Pro (256GB)
80			
## 826	9299	xiaomi	Xiaomi Redmi 9i (4GB RAM + 128GB)
67			
## 827	12989	realme	Realme 6 (6GB RAM + 64GB)
77			
## 828	4999	samsung	Samsung Galaxy A01 Core
NA			
## 829	29990	oppo	Oppo Reno 5
83			
## 830	12490	oppo	Oppo A31 2020 (6GB RAM + 128GB)
72			
## 831	27999	sony	Sony Xperia 10 II
75			
## 832	8199	vivo	Vivo Y91c
NA			
## 833	21990	huawei	Huawei Nova 7i
81			
## 834	20000	vivo	Vivo Y19
73			
## 835	11990	vivo	Vivo U3 (6GB RAM + 64GB)
74			
## 836	11989	xiaomi	Xiaomi Redmi Note 9
75			
## 837	11490	xiaomi	Xiaomi Redmi 8 (4GB RAM + 64GB)
66			
## 838	11490	motorola	Motorola One Macro
68			
## 839	15999	google	Google Pixel 3a XL
67			
## 840	17990	samsung	Samsung Galaxy A40
69			
## 841	78990	samsung	Samsung Galaxy S10 5G
86			
## 842	10949	huawei	Huawei Honor 9N
66			
## 843	10300	xiaomi	Xiaomi Redmi Note 4
65			
## 844	45999	doogee	Doogee V Max
88			
## 845	21990	huawei	Huawei Nova Y61
63			

## 846	19990	iqoo	iQOO Z9
76			
## 847	32990	vivo	Vivo V29
84			
## 848	14499	poco	Poco M5 (6GB RAM + 128GB)
77			
## 849	41990	nokia	Nokia X30
85			
## 850	13990	tecno	Tecno Pova Neo 2
67			
## 851	10490	vivo	Vivo Y15C (3GB RAM + 64GB)
67			
## 852	29990	huawei	Huawei Nova 10
82			
## 853	22990	huawei	Huawei Nova Y90
82			
## 854	47990	samsung	Samsung Galaxy A92 5G
80			
## 855	19999	infinix	Infinix Note 12 VIP
84			
## 856	29999	oneplus	OnePlus Nord 4 5G
83			
## 857	11879	realme	Realme Narzo 50A Prime (4GB RAM + 128GB)
74			
## 858	28990	oneplus	OnePlus Ace 5G
84			
## 859	39990	iqoo	iQOO 9 5G (12GB RAM + 256GB)
85			
## 860	15999	xiaomi	Xiaomi Redmi Note 12T 5G
78			
## 861	22990	oppo	Oppo A96 5G
82			
## 862	149999	royole	Royole FlexPai 3 5G
87			
## 863	11499	tecno	Tecno Camon 18
75			
## 864	22999	tecno	Tecno Phantom X Pro
84			
## 865	7999	tecno	Tecno Spark 8T
70			
## 866	31999	realme	Realme GT Neo2 5G
82			
## 867	30990	sony	Sony Xperia 10 III Lite 5G
78			
## 868	7999	realme	Realme G1
64			
## 869	10999	tecno	Tecno Pova 2
74			
## 870	14990	poco	Poco X4
79			

## 871	14499	motorola	Motorola Moto G40 Fusion
77			
## 872	44999	oneplus	OnePlus 9T
86			
## 873	17999	realme	Realme 8 (8GB RAM + 128GB)
83			
## 874	19999	realme	Realme Narzo 30 Pro 5G (8GB RAM +128GB)
83			
## 875	3999	itel	Itel A23 Pro
NA			
## 876	101999	samsung	Samsung Galaxy S21 Ultra 5G (12GB RAM + 128GB)
NA			
## 877	38700	oppo	Oppo Reno 5 Pro 5G
84			
## 878	19999	oneplus	OnePlus Nord SE
73			
## 879	10999	samsung	Samsung Galaxy M12
72			
## 880	16990	oneplus	OnePlus Nord N100
68			
## 881	55999	apple	Apple iPhone 12 Mini (256GB)
75			
## 882	67999	apple	Apple iPhone 12 (256GB)
76			
## 883	9999	oppo	OPPO A15
66			
## 884	14439	xiaomi	Xiaomi Redmi Note 9 Pro (4GB RAM + 128GB)
77			
## 885	9990	oppo	Oppo A12
64			
## 886	24999	realme	Realme X50 Pro 5G (8GB RAM + 128GB)
85			
## 887	85990	samsung	Samsung Galaxy S20 Plus 5G
NA			
## 888	480000	xiaomi	Xiaomi Redmi K20 Pro Signature Edition
88			
## 889	16999	xiaomi	Xiaomi Redmi Note 8 Pro
78			
## 890	8999	realme	Realme A1
NA			
## 891	15990	oppo	OPPO A73
62			
## 892	3890	lyf	Lyf Earth 2
NA			
## 893	84990	apple	Apple iPhone 15 Plus
75			
## 894	21999	vivo	Vivo Y55s 2023
78			
## 895	8999	lava	Lava Blaze NXT
66			

## 896	20999	tecno	Tecno Camon 20 Premier
79			
## 897	32990	oppo	OPPO Reno 8 House of Dragon Edition
84			
## 898	9022	motorola	Motorola Moto E22s
70			
## 899	8399	xiaomi	Xiaomi Redmi A1 Plus (3GB RAM + 32GB)
61			
## 900	9999	infinix	Infinix Hot 20i
64			
## 901	8390	tecno	Tecno Spark 9 (3GB RAM + 64GB)
63			
## 902	19999	zte	ZTE Axon 30S
82			
## 903	13999	honor	Honor X6
71			
## 904	29999	xiaomi	Xiaomi Civi 2
85			
## 905	8990	tcl	TCL Ion X
60			
## 906	163980	samsung	Samsung Galaxy Z Fold 4 (12GB RAM + 1TB)
NA			
## 907	24990	nothing	Nothing Phone 1 Lite
80			
## 908	59990	motorola	Motorola Moto Edge X30 Pro
NA			
## 909	47990	oneplus	OnePlus Ace Pro
86			
## 910	40990	realme	Realme GT 2 Explorer Master Edition
86			
## 911	22999	samsung	Samsung Galaxy M35
74			
## 912	12990	samsung	Samsung Galaxy A05
63			
## 913	14999	infinix	Infinix Note 12 Turbo
79			
## 914	42999	poco	POCO F5 GT 5G
86			
## 915	14999	iqoo	iQOO Z8 5G
78			
## 916	22990	vivo	Vivo Y55 4G
83			
## 917	118990	vivo	Vivo X Fold 5G (12GB RAM + 512GB)
NA			
## 918	29990	oppo	Oppo K10 Pro 5G
81			
## 919	7399	tecno	Tecno Spark 8C
62			
## 920	17999	iqoo	iQOO Z7 5G
80			

## 921	12799	infinix	Infinix Note 11 (6GB RAM + 128GB)
77			
## 922	26999	xiaomi	Xiaomi 11i HyperCharge 5G (8GB RAM + 128GB)
86			
## 923	22999	samsung	Samsung Galaxy F42 5G (8GB RAM + 128GB)
82			
## 924	147900	apple	Apple iPhone 13 Pro (1TB)
84			
## 925	44999	nubia	Nubia Red Magic 6S 5G
84			
## 926	7790	micromax	Micromax IN 2B (6GB RAM + 64GB)
68			
## 927	39990	nokia	Nokia X60 5G
87			
## 928	9999	vivo	Vivo Y12a
65			
## 929	22990	oppo	Oppo Reno 5A
80			
## 930	32999	poco	Poco F3 GT
79			
## 931	32990	honor	Honor 50
85			
## 932	14999	oppo	OPPO A54 (6GB RAM + 128GB)
74			
## 933	12499	realme	Realme 8i
74			
## 934	39990	iqoo	iQOO 7 Legend
84			
## 935	6499	realme	Realme C11 2021
61			
## 936	18499	samsung	Samsung Galaxy A22
76			
## 937	30994	realme	Realme GT 5G
85			
## 938	32999	google	Google Pixel 5A
78			
## 939	10499	samsung	Samsung Galaxy F12
73			
## 940	19999	samsung	Samsung Galaxy F41 (6GB RAM + 128GB)
82			
## 941	17499	samsung	Samsung Galaxy A21s (6GB RAM + 128GB)
75			
## 942	10990	xiaomi	Xiaomi Redmi 9A (6GB RAM + 128GB)
69			
## 943	19000	vivo	Vivo V20 SE
82			
## 944	13990	oppo	OPPO A53 2020 (6GB RAM + 128GB)
70			
## 945	10499	realme	Realme Narzo 20
72			

## 946	5890	itel	itel Vision 1 (3GB RAM + 32GB)
NA			
## 947	6490	realme	Realme C11
61			
## 948	54999	xiaomi	Xiaomi Mi 10 5G (8GB RAM + 256GB)
88			
## 949	9990	vivo	Vivo Y21 (2020)
65			
## 950	24999	oneplus	OnePlus Z
79			
## 951	59990	sharp	Sharp Aquos R5G
88			
## 952	214990	huawei	Huawei Mate 30 RS Porsche Design
NA			
## 953	9990	samsung	Samsung Galaxy A11
63			
## 954	6999	realme	Realme C2
NA			
## 955	169000	huawei	Huawei Mate X
NA			
## 956	39990	samsung	Samsung Galaxy A9 Pro (2019)
78			
## 957	21490	samsung	Samsung Galaxy A7 (2018)
70			
## 958	13490	vivo	Vivo Y55S
NA			
## 959	7999	poco	Poco C55
70			
## 960	8990	blackview	Blackview BV5200 Pro
67			
## 961	13999	honor	Honor X7a
75			
## 962	13990	oppo	OPPO A58x
72			
## 963	14999	doogee	Doogee S99
84			
## 964	6999	lava	Lava X3
NA			
## 965	42990	motorola	Motorola Edge 40 Fusion
87			
## 966	6799	ikall	iKall Z18
61			
## 967	25899	oukitel	Oukitel WP9
72			
## 968	54999	xiaomi	Xiaomi 14
89			
## 969	49990	motorola	Motorola ThinkPhone
89			
## 970	32990	xiaomi	Xiaomi Civi 3
86			

## 971	8720	realme	Realme Narzo 50i Prime (4GB RAM + 64GB)
64			
## 972	69990	oppo	Oppo Find X6
89			
## 973	4787	itel	itel A23s
NA			
## 974	70990	google	Google Pixel 8 Pro
80			
## 975	119990	vivo	Vivo X Fold 2
NA			
## 976	34990	motorola	Motorola Moto Edge S30 Pro
83			
## 977	14990	honor	Honor X8 5G
75			
## 978	28990	poco	POCO X4 GT 5G (8GB RAM + 256GB)
85			
## 979	19990	motorola	Motorola Moto G91 5G
80			
## 980	24990	samsung	Samsung Galaxy M52s 5G
74			

##	has_5g	has_nfc	has_ir_blaster	processor_brand	num_cores
processor_speed					

## 1	True	True	False	snapdragon	8
3.20					
## 2	True	False	False	snapdragon	8
2.20					
## 3	True	False	False	exynos	8
2.40					
## 4	True	False	False	snapdragon	8
2.20					
## 5	True	False	False	dimensity	8
2.60					
## 6	True	True	False	snapdragon	8
2.20					
## 7	True	True	False	bionic	6
3.22					
## 8	True	False	True	dimensity	8
2.60					
## 9	True	True	False	snapdragon	8
2.50					
## 10	True	True	False	dimensity	8
3.00					
## 11	True	False	False	snapdragon	8
2.20					
## 12	True	True	False	dimensity	8
2.20					
## 13	True	False	True	dimensity	8
2.60					
## 14	True	False	False	snapdragon	8
2.20					

## 15	True	True	False	snapdragon	8
3.20					
## 16	True	True	False	bionic	6
3.22					
## 17	False	False	False	helio	8
2.30					
## 18	True	True	False	snapdragon	8
3.20					
## 19	True	True	False	dimensionality	8
2.85					
## 20	False	False	False	helio	8
2.00					
## 21	True	True	False	snapdragon	8
3.20					
## 22	True	False	False	dimensionality	8
3.00					
## 23	True	False	True	snapdragon	8
2.20					
## 24	True	False	True	snapdragon	8
2.00					
## 25	True	True	False	dimensionality	8
3.20					
## 26	True	True	False	snapdragon	8
2.84					
## 27	True	False	False	snapdragon	8
2.20					
## 28	True	True	False	bionic	6
NA					
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2.00					
## 30	True	True	False	snapdragon	8
3.20					
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2.20					
## 32	True	True	True	snapdragon	8
2.40					
## 33	True	False	False	dimensionality	8
2.20					
## 34	False	True	False	bionic	6
2.65					
## 35	True	False	False	dimensionality	8
2.40					
## 36	True	True	False	exynos	8
2.90					
## 37	True	True	False	snapdragon	8
2.20					
## 38	True	True	False	snapdragon	8
3.00					
## 39	True	False	True	snapdragon	8
2.36					

## 40	True	True	False	snapdragon	8
2.40					
## 41	True	True	False	snapdragon	8
2.20					
## 42	True	False	True	snapdragon	8
2.20					
## 43	True	True	False	dimension	8
2.40					
## 44	True	False	False	dimension	8
2.60					
## 45	False	False	False	snapdragon	8
2.40					
## 46	True	True	False	exynos	8
2.40					
## 47	False	False	True	snapdragon	8
2.40					
## 48	False	False	False	unisoc	8
1.80					
## 49	False	False	False	helio	8
2.30					
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2.36					
## 51	True	False	False	exynos	8
2.40					
## 52	True	True	True	dimension	8
3.10					
## 53	True	False	False	snapdragon	8
2.20					
## 54	True	True	False	snapdragon	8
2.20					
## 55	False	False	False	helio	8
2.20					
## 56	True	False	False	dimension	8
2.40					
## 57	True	True	False	bionic	6
3.22					
## 58	False	False	True	helio	8
2.05					
## 59	True	True	False	snapdragon	8
3.20					
## 60	False	False	False	snapdragon	8
2.40					
## 61	True	True	True	dimension	8
2.00					
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3.20					
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2.40					
## 64	False	False	False	helio	8
2.00					

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2.40					
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3.10					
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3.00					
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2.60					
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2.20					
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3.20					
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2.30					
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2.50					
## 73	True	False	False	snapdragon	8
2.00					
## 74	True	True	False	snapdragon	8
3.20					
## 75	True	False	True	dimensionality	8
2.20					
## 76	False	False	False	tiger	4
2.00					
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3.22					
## 78	True	False	False	snapdragon	8
2.20					
## 79	True	True	False	exynos	8
NA					
## 80	False	False	False	helio	8
2.00					
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2.20					
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2.40					
## 83	True	False	False	dimensionality	8
2.40					
## 84	True	False	False	snapdragon	8
2.20					
## 85	True	False	False	dimensionality	8
2.20					
## 86	True	True	False	snapdragon	8
2.50					
## 87	True	False	False	snapdragon	8
2.20					
## 88	True	False	False	dimensionality	8
2.40					
## 89	False	False	True	snapdragon	8
2.40					

## 90	True	True	False	snapdragon	8
2.40					
## 91	False	False	False	helio	8
2.30					
## 92	True	True	False	dimensity	8
2.85					
## 93	True	False	False	snapdragon	8
2.20					
## 94	True	True	True	snapdragon	8
3.20					
## 95	False	False	False	unisoc	8
1.80					
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2.40					
## 97	False	False	False	helio	8
2.30					
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3.20					
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3.00					
## 100	True	False	False	snapdragon	8
2.20					
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2.90					
## 104	True	False	False	dimensity	8
2.40					
## 105	True	False	False	dimensity	8
2.40					
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3.20					
## 107	True	False	False	dimensity	8
3.20					
## 108	True	True	False	snapdragon	8
3.00					
## 109	False	False	False	snapdragon	8
2.40					
## 110	True	True	False	dimensity	8
2.85					
## 111	True	True	False	dimensity	8
3.05					
## 112	True	True	False	bionic	6
3.10					
## 113	True	False	True	dimensity	8
2.85					
## 114	True	True	False	exynos	8
2.40					

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2.00					
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3.00					
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2.40					
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2.40					
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3.20					
## 121	True	True	False	snapdragon	8
3.00					
## 122	True	True	False	dimension	8
3.00					
## 123	True	True	False	google	8
NA					
## 124	True	False	False	dimension	8
2.40					
## 125	True	True	False	exynos	8
2.40					
## 126	True	False	False	dimension	8
2.50					
## 127	False	True	False	snapdragon	8
2.40					
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2.20					
## 129	True	True	False	exynos	8
2.40					
## 130	True	True	False	google	8
NA					
## 131	True	False	True	dimension	8
2.20					
## 132	False	False	True	snapdragon	8
2.30					
## 133	False	False	False	tiger	8
1.80					
## 134	True	True	False	snapdragon	8
2.50					
## 135	True	False	True	snapdragon	8
2.20					
## 136	True	False	True	snapdragon	8
2.20					
## 137	False	True	False	bionic	6
2.65					
## 138	False	False	False	tiger	8
1.80					
## 139	False	False	False	snapdragon	8
2.40					

## 140	True	False	True	snapdragon	8
3.20					
## 141	True	False	False	snapdragon	8
2.20					
## 142	True	True	False	dimensity	8
2.85					
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2.40					
## 144	False	False	False	<NA>	4
1.40					
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1.80					
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2.30					
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3.20					
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2.40					
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2.40					
## 150	True	True	False	bionic	6
3.10					
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2.00					
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2.40					
## 153	True	True	False	bionic	NA
NA					
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3.00					
## 155	True	False	False	dimensity	8
2.60					
## 156	False	False	False	tiger	8
1.82					
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2.20					
## 158	True	False	False	snapdragon	8
3.00					
## 159	True	True	False	snapdragon	8
3.20					
## 160	False	False	False	snapdragon	8
2.40					
## 161	False	False	False	helio	8
2.20					
## 162	True	True	False	bionic	6
3.22					
## 163	True	True	False	snapdragon	8
3.20					
## 164	True	True	True	dimensity	8
3.05					

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2.00					
## 166	False	False	True	helio	8
2.05					
## 167	False	False	False	helio	8
2.20					
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2.84					
## 169	True	False	False	dimensity	8
2.40					
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2.00					
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2.36					
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2.50					
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2.00					
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2.65					
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2.00					
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2.05					
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2.00					
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2.20					
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2.00					
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2.05					
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2.50					
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2.00					
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3.20					
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2.20					
## 185	True	False	False	dimensity	8
2.20					
## 186	True	True	False	dimensity	8
3.10					
## 187	True	True	False	snapdragon	8
2.20					
## 188	False	False	False	<NA>	4
1.60					
## 189	False	False	False	tiger	4
1.80					

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2.00					
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2.00					
## 192	True	False	False	snapdragon	8
2.84					
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3.00					
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2.90					
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1.80					
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2.85					
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2.30					
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2.40					
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2.00					
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3.20					
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3.20					
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2.40					
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2.20					
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2.50					
## 207	True	True	False	exynos	8
NA					
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2.20					
## 209	True	False	True	dimensity	8
2.60					
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NA					
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3.00					
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2.40					
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2.20					
## 214	True	False	False	dimensity	8
2.20					

## 215	True	True	True	snapdragon	8
2.20					
## 216	True	True	False	google	8
2.85					
## 217	False	False	False	helio	8
2.00					
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3.00					
## 219	False	False	False	helio	8
2.30					
## 220	True	True	True	snapdragon	8
3.20					
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2.50					
## 222	True	False	False	dimension	8
2.40					
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2.50					
## 224	False	False	True	snapdragon	8
2.40					
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NA					
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2.30					
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2.40					
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3.20					
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2.85					
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3.00					
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3.20					
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2.40					
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2.40					
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2.20					
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2.40					
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3.20					
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2.30					
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2.20					
## 239	False	False	False	helio	8
2.05					

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## 242 NA	True	True	False	snapdragon	8
## 243 2.40	True	False	False	snapdragon	8
## 244 2.85	True	True	False	google	8
## 245 2.40	True	False	True	dimensionality	8
## 246 2.40	False	False	False	snapdragon	8
## 247 3.22	True	True	False	bionic	6
## 248 2.20	True	True	False	dimensionality	8
## 249 3.20	True	True	False	snapdragon	8
## 250 2.00	False	False	False	helio	8
## 251 3.05	True	True	False	dimensionality	8
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## 253 2.20	True	False	False	snapdragon	8
## 254 2.20	True	False	True	snapdragon	8
## 255 2.20	True	True	False	snapdragon	8
## 256 NA	True	True	False	exynos	8
## 257 3.00	True	True	False	snapdragon	8
## 258 2.00	True	False	False	snapdragon	8
## 259 2.00	False	True	False	helio	8
## 260 2.20	True	False	True	dimensionality	8
## 261 2.40	True	False	False	dimensionality	8
## 262 2.30	False	False	False	helio	8
## 263 NA	False	True	False	bionic	NA
## 264 2.40	True	True	False	exynos	8

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2.40					
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3.00					
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3.20					
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2.30					
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3.20					
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2.00					
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2.80					
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2.00					
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2.20					
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2.20					
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3.00					
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3.22					
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1.82					
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3.20					
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2.40					
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NA					
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3.10					
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2.20					
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2.40					
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NA					

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2.40					
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2.20					
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3.20					
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2.00					
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2.30					
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1.82					
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2.40					
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2.40					
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2.84					
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3.10					
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1.30					

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2.40					
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3.20					
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2.05					

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3.05					

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## 423 3.00	True	False	False	dimensity	8
## 424 2.30	False	False	False	helio	8
## 425 2.84	True	True	True	snapdragon	8
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## 430 2.05	False	True	False	helio	8
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2.60					
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2.30					
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3.05					
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2.30					
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2.00					
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1.60					
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3.00					
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3.00					
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2.20					

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## 545 2.30	False	False	True	snapdragon	8
## 546 3.20	True	True	False	snapdragon	8
## 547 2.00	False	False	False	helio	8
## 548 2.73	False	True	False	exynos	8
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## 550 1.80	False	False	False	helio	8
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## 552 2.36	True	False	False	snapdragon	8
## 553 3.20	True	True	True	snapdragon	8
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## 559 2.00	True	True	False	dimensity	8
## 560 3.20	True	True	False	snapdragon	8
## 561 2.84	True	True	False	snapdragon	8
## 562 2.40	True	True	False	snapdragon	8
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2.50					
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3.00					
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1.60					
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2.30					
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2.05					
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1.80					
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3.10					

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1.60					
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3.00					
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3.00					
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2.65					

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## 647 1.60	False	False	False	unisoc	8
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## 649 2.20	True	False	True	dimensionality	8
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## 651 2.30	False	False	False	helio	8
## 652 2.00	False	False	False	helio	4
## 653 1.80	False	False	False	tiger	8
## 654 2.30	False	False	False	helio	8
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## 656 2.60	True	True	True	dimensionality	8
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## 660 2.84	True	True	False	snapdragon	8
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## 662 2.20	False	False	False	snapdragon	8
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3.20					
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1.60					
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2.20					
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1.80					
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2.20					
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3.00					
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1.60					
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2.85					
## 703	True	True	False	kirin	8
3.13					
## 704	False	False	False	tiger	8
1.82					
## 705	False	True	True	snapdragon	8
2.84					
## 706	True	False	False	snapdragon	8
2.36					
## 707	False	True	False	bionic	NA
NA					
## 708	False	False	False	helio	8
2.05					
## 709	False	False	False	helio	8
1.80					
## 710	True	False	False	dimensity	8
2.20					
## 711	True	True	False	snapdragon	8
3.20					
## 712	False	False	True	helio	8
2.00					
## 713	False	True	False	snapdragon	8
2.40					
## 714	False	False	False	spreadtrum	4
1.30					

## 715	False	True	True	snapdragon	8
2.84					
## 716	True	True	True	dimensity	8
2.85					
## 717	False	False	False	unisoc	8
1.60					
## 718	True	False	False	snapdragon	8
2.20					
## 719	True	True	False	snapdragon	8
3.20					
## 720	True	True	False	snapdragon	8
3.20					
## 721	True	True	False	snapdragon	8
2.84					
## 722	False	False	True	snapdragon	8
2.00					
## 723	False	False	False	unisoc	4
1.30					
## 724	True	False	False	snapdragon	8
2.40					
## 725	True	True	True	snapdragon	8
2.84					
## 726	False	False	False	snapdragon	8
2.30					
## 727	True	True	False	exynos	8
2.73					
## 728	False	False	False	snapdragon	8
2.00					
## 729	False	False	False	snapdragon	8
2.20					
## 730	False	False	False	snapdragon	8
2.30					
## 731	False	False	False	helio	8
2.00					
## 732	False	False	False	snapdragon	8
2.80					
## 733	False	False	False	helio	4
2.00					
## 734	False	False	False	<NA>	4
1.60					
## 735	True	True	True	snapdragon	8
3.20					
## 736	True	True	False	dimensity	8
NA					
## 737	True	True	False	snapdragon	8
3.00					
## 738	True	True	False	bionic	6
3.22					
## 739	False	False	False	dimensity	8
2.40					

## 740	True	True	False	bionic	6
NA					
## 741	True	True	False	google	8
NA					
## 742	True	False	False	dimensity	8
3.00					
## 743	True	True	False	snapdragon	8
2.20					
## 744	True	True	False	snapdragon	8
2.36					
## 745	True	True	True	snapdragon	8
3.00					
## 746	True	True	False	snapdragon	8
3.00					
## 747	False	False	False	helio	8
2.30					
## 748	False	False	False	snapdragon	8
2.40					
## 749	False	False	False	unisoc	8
1.60					
## 750	True	True	False	snapdragon	8
3.00					
## 751	False	False	False	snapdragon	8
2.40					
## 752	True	False	True	dimensity	8
2.50					
## 753	True	True	False	snapdragon	8
3.00					
## 754	False	False	False	<NA>	8
2.20					
## 755	False	False	False	snapdragon	8
2.40					
## 756	False	False	False	helio	8
2.00					
## 757	True	True	False	bionic	6
3.22					
## 758	False	False	False	snapdragon	8
2.00					
## 759	False	False	False	helio	8
2.05					
## 760	False	False	False	helio	8
2.00					
## 761	True	True	True	snapdragon	8
3.20					
## 762	False	False	False	tiger	8
1.80					
## 763	False	False	False	helio	8
2.30					
## 764	False	False	False	helio	8
2.30					

## 765	True	False	True	dimensity	8
2.20					
## 766	True	True	True	snapdragon	8
2.84					
## 767	True	True	False	dimensity	8
2.20					
## 768	False	False	False	helio	8
2.30					
## 769	False	False	False	helio	8
2.30					
## 770	False	False	False	<NA>	4
1.30					
## 771	False	False	True	snapdragon	8
2.00					
## 772	True	True	False	exynos	8
2.90					
## 773	False	False	True	snapdragon	8
2.30					
## 774	False	True	False	exynos	8
2.73					
## 775	False	False	False	snapdragon	8
2.30					
## 776	True	True	False	kirin	8
2.86					
## 777	False	False	False	snapdragon	8
2.00					
## 778	False	False	False	snapdragon	8
2.00					
## 779	False	False	False	snapdragon	8
1.95					
## 780	False	False	False	helio	8
2.00					
## 781	False	True	False	exynos	8
2.80					
## 782	True	False	False	snapdragon	8
3.00					
## 783	True	False	False	dimensity	8
2.00					
## 784	False	False	False	helio	8
2.30					
## 785	True	True	False	snapdragon	8
3.00					
## 786	True	False	True	dimensity	8
3.10					
## 787	False	False	False	helio	8
2.05					
## 788	True	False	False	snapdragon	8
3.20					
## 789	True	True	False	bionic	6
3.22					

## 790	True	True	False	bionic	6
NA					
## 791	True	False	True	snapdragon	8
2.00					
## 792	False	False	True	helio	8
2.20					
## 793	False	False	False	unisoc	8
1.60					
## 794	True	True	False	dimensity	8
2.40					
## 795	False	True	False	helio	8
2.00					
## 796	False	False	False	tiger	8
1.82					
## 797	True	True	True	snapdragon	8
3.20					
## 798	False	False	False	helio	8
2.30					
## 799	False	False	False	helio	8
2.00					
## 800	True	True	False	<NA>	8
NA					
## 801	True	False	False	<NA>	8
NA					
## 802	True	False	False	dimensity	8
3.05					
## 803	True	False	False	snapdragon	8
NA					
## 804	False	False	False	helio	8
2.05					
## 805	False	False	False	exynos	8
NA					
## 806	True	False	False	snapdragon	8
NA					
## 807	True	False	True	dimensity	8
2.20					
## 808	False	False	True	helio	8
2.05					
## 809	False	False	False	tiger	8
1.82					
## 810	True	False	False	dimensity	8
2.20					
## 811	False	False	False	snapdragon	8
2.40					
## 812	False	False	False	tiger	4
2.00					
## 813	False	False	True	snapdragon	8
2.30					
## 814	True	True	False	bionic	6
3.22					

## 815	False	False	False	helio	8
2.00					
## 816	True	True	False	snapdragon	8
3.20					
## 817	True	True	True	snapdragon	8
3.00					
## 818	False	False	False	snapdragon	4
1.30					
## 819	False	False	True	snapdragon	8
2.30					
## 820	True	False	False	dimensity	8
2.20					
## 821	True	False	True	snapdragon	8
2.84					
## 822	True	True	False	snapdragon	8
2.84					
## 823	False	True	False	exynos	8
2.73					
## 824	True	False	False	dimensity	8
2.00					
## 825	True	True	False	bionic	6
3.10					
## 826	False	False	False	helio	8
2.00					
## 827	False	False	False	helio	8
2.05					
## 828	False	False	False	mediatek	4
1.50					
## 829	True	False	False	snapdragon	8
2.40					
## 830	False	False	False	helio	8
2.30					
## 831	False	True	False	snapdragon	8
2.00					
## 832	False	False	False	helio	8
2.00					
## 833	False	False	False	kirin	8
2.20					
## 834	False	False	False	helio	8
2.00					
## 835	False	False	False	snapdragon	8
2.00					
## 836	False	False	True	helio	8
2.00					
## 837	False	False	True	snapdragon	8
2.00					
## 838	False	False	False	helio	8
2.00					
## 839	False	True	False	snapdragon	8
2.00					

## 840	False	False	False	exynos	8
2.20					
## 841	True	True	False	exynos	8
2.70					
## 842	False	False	False	kirin	8
2.36					
## 843	False	False	False	snapdragon	8
2.00					
## 844	True	False	False	dimensity	8
2.60					
## 845	False	False	False	<NA>	8
NA					
## 846	True	False	False	snapdragon	8
NA					
## 847	True	False	False	snapdragon	8
2.40					
## 848	False	False	True	helio	8
2.20					
## 849	True	True	False	snapdragon	8
2.20					
## 850	False	False	False	helio	8
2.00					
## 851	False	False	False	helio	8
2.30					
## 852	False	False	False	snapdragon	8
2.40					
## 853	False	True	False	snapdragon	8
2.40					
## 854	True	False	False	dimensity	8
3.00					
## 855	False	False	False	helio	8
2.05					
## 856	True	True	False	snapdragon	8
2.36					
## 857	False	False	False	tiger	8
1.82					
## 858	True	True	False	dimensity	8
2.85					
## 859	True	False	False	snapdragon	8
2.90					
## 860	True	False	True	dimensity	8
2.00					
## 861	True	False	False	snapdragon	8
2.20					
## 862	True	False	False	snapdragon	8
2.84					
## 863	False	True	False	helio	8
2.00					
## 864	False	False	False	helio	8
2.05					

## 865	False	False	False	helio	8
2.30					
## 866	True	True	False	snapdragon	8
3.20					
## 867	True	True	False	snapdragon	8
2.00					
## 868	False	False	False	helio	8
2.30					
## 869	False	False	False	helio	8
2.00					
## 870	True	False	False	dimensity	8
2.20					
## 871	False	False	False	snapdragon	8
2.30					
## 872	True	True	False	snapdragon	8
2.84					
## 873	False	False	False	helio	8
2.00					
## 874	True	False	False	dimensity	8
2.40					
## 875	False	False	False	spreadtrum	4
1.40					
## 876	True	True	False	exynos	8
2.90					
## 877	True	False	False	dimensity	8
2.60					
## 878	False	False	False	snapdragon	8
2.00					
## 879	False	False	False	exynos	8
2.00					
## 880	False	False	False	snapdragon	8
1.80					
## 881	True	True	False	bionic	6
3.10					
## 882	True	True	False	bionic	6
3.10					
## 883	False	False	False	helio	8
2.30					
## 884	False	False	True	snapdragon	8
2.30					
## 885	False	False	False	helio	8
1.80					
## 886	True	True	False	snapdragon	8
2.84					
## 887	True	True	False	exynos	8
2.73					
## 888	False	True	False	snapdragon	8
2.80					
## 889	False	False	True	helio	8
2.05					

## 890	False	False	False	helio	8
2.10					
## 891	False	False	False	helio	8
2.50					
## 892	False	False	False	snapdragon	8
1.50					
## 893	True	True	False	bionic	6
NA					
## 894	True	True	False	dimensionality	8
2.20					
## 895	False	False	False	helio	8
2.30					
## 896	True	True	False	dimensionality	8
2.20					
## 897	True	True	False	dimensionality	8
3.00					
## 898	False	False	False	helio	8
2.30					
## 899	False	False	False	helio	4
2.00					
## 900	False	False	False	helio	8
2.00					
## 901	False	False	False	helio	8
2.30					
## 902	True	True	False	snapdragon	8
3.20					
## 903	False	False	False	helio	8
2.00					
## 904	True	True	True	snapdragon	8
2.40					
## 905	False	False	False	helio	8
2.00					
## 906	True	True	False	snapdragon	8
3.20					
## 907	True	True	False	snapdragon	8
2.50					
## 908	True	True	False	snapdragon	8
3.20					
## 909	True	True	False	snapdragon	8
3.20					
## 910	True	True	False	snapdragon	8
3.20					
## 911	False	True	False	<NA>	8
NA					
## 912	False	False	False	<NA>	8
NA					
## 913	False	False	False	helio	8
2.00					
## 914	True	True	True	dimensionality	8
3.00					

## 915	True	False	False	snapdragon	8
2.20					
## 916	False	False	False	snapdragon	8
2.40					
## 917	True	True	False	snapdragon	8
3.00					
## 918	True	False	False	snapdragon	8
2.84					
## 919	False	False	False	unisoc	8
2.00					
## 920	True	False	False	snapdragon	8
2.20					
## 921	False	False	False	helio	8
2.00					
## 922	True	False	True	dimensity	8
2.50					
## 923	True	False	False	dimensity	8
2.20					
## 924	True	True	False	bionic	6
3.22					
## 925	True	True	False	snapdragon	8
2.90					
## 926	False	False	False	unisoc	8
1.80					
## 927	True	False	False	snapdragon	8
3.20					
## 928	False	False	False	snapdragon	8
2.00					
## 929	True	False	False	snapdragon	8
2.40					
## 930	True	False	True	dimensity	8
3.00					
## 931	True	True	False	snapdragon	8
2.40					
## 932	False	False	False	helio	8
2.30					
## 933	False	False	False	helio	8
2.05					
## 934	True	True	False	snapdragon	8
2.84					
## 935	False	False	False	sc9863a	8
1.60					
## 936	False	False	False	helio	8
2.00					
## 937	True	True	False	snapdragon	8
2.84					
## 938	True	True	False	snapdragon	8
2.40					
## 939	False	False	False	exynos	8
2.00					

## 940	False	False	False	exynos	8
2.30					
## 941	False	False	False	exynos	8
2.00					
## 942	False	False	False	helio	8
2.00					
## 943	False	False	False	snapdragon	8
2.00					
## 944	False	False	False	snapdragon	8
1.80					
## 945	False	False	False	helio	8
2.00					
## 946	False	False	False	unisoc	8
1.60					
## 947	False	False	False	helio	8
2.30					
## 948	True	True	True	snapdragon	8
2.84					
## 949	False	False	False	snapdragon	8
1.80					
## 950	False	False	False	snapdragon	8
2.40					
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2.84					
## 952	True	True	True	kirin	8
2.86					
## 953	False	False	False	<NA>	8
1.80					
## 954	False	False	False	helio	8
2.00					
## 955	True	True	True	kirin	8
2.86					
## 956	False	True	False	snapdragon	8
2.20					
## 957	False	False	False	exynos	8
2.20					
## 958	False	False	False	snapdragon	4
1.20					
## 959	False	False	False	helio	8
2.00					
## 960	True	True	False	helio	8
2.30					
## 961	False	False	False	helio	8
2.30					
## 962	True	False	False	dimensity	8
2.20					
## 963	False	True	False	helio	8
2.05					
## 964	False	False	False	helio	4
2.00					

## 965	True	True	False	snapdragon	8
3.20					
## 966	False	False	False	<NA>	4
1.30					
## 967	False	True	False	helio	8
2.00					
## 968	True	True	True	snapdragon	8
3.20					
## 969	True	True	False	snapdragon	8
3.20					
## 970	True	True	True	dimensity	8
3.10					
## 971	False	False	False	tiger	8
1.82					
## 972	True	True	False	snapdragon	8
3.20					
## 973	False	False	False	spreadtrum	4
1.40					
## 974	True	True	False	google	8
NA					
## 975	True	True	False	snapdragon	8
3.20					
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3.00					
## 977	True	False	False	snapdragon	8
2.20					
## 978	True	True	True	dimensity	8
2.85					
## 979	True	True	False	snapdragon	8
2.20					
## 980	True	False	False	<NA>	8
NA					
##	battery_capacity	fast_charging_available	fast_charging	ram_capacity	
## 1	5000	1	100	12	
## 2	5000	1	33	6	
## 3	5000	1	15	4	
## 4	5000	1	NA	6	
## 5	5000	1	67	6	
## 6	5000	1	25	6	
## 7	3279	1	NA	6	
## 8	4980	1	120	8	
## 9	4500	1	33	8	
## 10	4500	1	80	8	
## 11	5000	1	33	6	
## 12	5000	1	33	8	
## 13	5000	1	67	6	
## 14	5000	1	18	6	
## 15	5000	1	45	8	
## 16	3240	1	NA	4	
## 17	5000	1	10	3	

## 18	4700	1	80	16
## 19	5000	1	80	8
## 20	5000	1	18	4
## 21	5000	1	100	8
## 22	4830	1	66	8
## 23	5000	1	67	6
## 24	5000	1	33	4
## 25	4800	1	100	12
## 26	4500	1	NA	8
## 27	5000	1	33	8
## 28	4323	1	NA	6
## 29	4500	1	44	8
## 30	4500	1	100	8
## 31	5000	1	33	8
## 32	5000	1	67	6
## 33	4700	1	67	8
## 34	3110	0	NA	4
## 35	5000	1	25	6
## 36	4500	1	25	8
## 37	5000	1	66	8
## 38	5000	1	45	12
## 39	5200	1	210	6
## 40	4500	1	67	8
## 41	5000	1	67	6
## 42	5000	1	67	6
## 43	5000	1	30	6
## 44	5000	1	67	8
## 45	5000	1	44	8
## 46	6000	1	25	6
## 47	5000	1	33	4
## 48	5000	0	NA	3
## 49	5000	1	10	4
## 50	5000	1	33	8
## 51	5000	1	15	6
## 52	5000	1	120	8
## 53	5000	1	18	4
## 54	5000	1	30	6
## 55	5000	1	33	4
## 56	5000	1	18	4
## 57	4325	1	NA	6
## 58	5000	1	33	6
## 59	4700	1	45	8
## 60	5000	1	33	4
## 61	5000	1	67	6
## 62	4600	1	66	8
## 63	5000	1	25	6
## 64	5000	1	18	6
## 65	5000	1	33	6
## 66	4600	1	66	8
## 67	5000	1	80	8

## 68	4980	1	120	12
## 69	5000	1	25	4
## 70	5000	1	67	8
## 71	5000	0	NA	3
## 72	4200	1	44	12
## 73	5000	1	18	4
## 74	4800	1	150	8
## 75	5000	1	18	6
## 76	3500	0	NA	4
## 77	3095	1	NA	6
## 78	4800	1	67	8
## 79	5000	1	33	6
## 80	5000	0	NA	4
## 81	5000	1	33	6
## 82	5000	1	15	8
## 83	5000	1	18	4
## 84	5000	1	18	8
## 85	5000	1	15	6
## 86	4020	1	33	6
## 87	5000	1	25	6
## 88	5000	1	33	8
## 89	5000	1	33	6
## 90	5000	1	25	8
## 91	5000	1	18	4
## 92	5000	1	NA	8
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## 94	4700	1	80	12
## 95	5000	0	NA	4
## 96	5000	1	33	4
## 97	5000	1	NA	4
## 98	5000	1	120	8
## 99	4600	1	66	12
## 100	5000	1	18	4
## 101	3200	1	NA	6
## 102	5200	1	33	6
## 103	4400	1	68	8
## 104	5000	1	33	8
## 105	4310	1	50	8
## 106	4820	1	120	8
## 107	5000	1	120	12
## 108	3700	1	25	8
## 109	5000	1	44	6
## 110	5000	1	80	12
## 111	5160	1	45	8
## 112	NA	0	NA	4
## 113	5080	1	67	6
## 114	5000	1	25	6
## 115	5000	1	10	2
## 116	4500	1	80	8
## 117	5000	1	25	8

## 118	4700	1	66	6
## 119	5000	1	120	16
## 120	3900	1	25	8
## 121	4800	1	68	8
## 122	4500	1	80	12
## 123	4410	1	NA	6
## 124	5000	1	33	8
## 125	6000	1	25	8
## 126	4200	1	44	8
## 127	5000	1	20	4
## 128	5000	1	33	8
## 129	5000	1	25	6
## 130	4410	1	NA	6
## 131	5000	1	18	4
## 132	5020	1	18	4
## 133	5000	0	NA	4
## 134	4500	1	33	8
## 135	5000	1	67	6
## 136	5000	1	67	8
## 137	3110	0	NA	4
## 138	5000	1	18	6
## 139	5000	1	33	6
## 140	4700	1	80	8
## 141	5000	1	18	4
## 142	4500	1	67	16
## 143	5000	1	33	4
## 144	2800	0	NA	2
## 145	6000	1	18	4
## 146	5000	1	15	4
## 147	4400	1	66	8
## 148	6000	1	25	6
## 149	6000	1	18	4
## 150	NA	0	NA	4
## 151	5000	1	33	6
## 152	5000	1	33	4
## 153	4352	1	25	8
## 154	5000	1	67	8
## 155	5000	1	33	8
## 156	5000	0	NA	2
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## 160	5000	1	33	6
## 161	5000	1	33	4
## 162	4352	1	NA	6
## 163	4700	1	80	12
## 164	4810	1	120	8
## 165	6000	1	15	4
## 166	5000	1	33	6
## 167	5000	1	33	8

## 168	4500	1	66	8
## 169	5000	1	18	4
## 170	4000	0	NA	4
## 171	5200	1	67	6
## 172	5000	1	33	6
## 173	5000	1	18	6
## 174	2050	1	NA	3
## 175	5000	1	18	6
## 176	5000	1	33	6
## 177	5000	1	33	4
## 178	5000	1	18	8
## 179	4500	1	44	12
## 180	5000	1	33	6
## 181	4500	1	180	8
## 182	5000	1	10	3
## 183	4600	1	125	8
## 184	5000	1	25	4
## 185	5000	1	33	8
## 186	4200	1	120	8
## 187	5000	1	30	8
## 188	5000	0	NA	4
## 189	5000	1	10	8
## 190	4000	0	NA	3
## 191	2150	0	NA	4
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## 193	6000	1	65	12
## 194	4400	1	68	8
## 195	5000	1	18	4
## 196	4500	1	80	12
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## 200	5000	1	33	8
## 201	5000	1	25	4
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## 203	5000	1	120	12
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## 205	5000	1	18	4
## 206	4500	1	33	12
## 207	5000	1	25	6
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## 209	5000	1	67	8
## 210	4323	1	NA	6
## 211	4830	1	66	12
## 212	5000	1	18	6
## 213	5000	1	33	6
## 214	5000	0	NA	4
## 215	5100	1	40	8
## 216	5000	1	30	12
## 217	7000	1	33	4

## 218	4300	1	44	8
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## 220	5500	1	67	8
## 221	4500	1	60	6
## 222	5000	1	18	6
## 223	4020	1	33	8
## 224	5000	1	33	6
## 225	5000	1	10	3
## 226	5000	0	NA	4
## 227	5000	1	33	6
## 228	5000	1	80	6
## 229	4500	1	80	12
## 230	5000	1	80	12
## 231	4700	1	200	8
## 232	5000	1	18	4
## 233	6000	1	18	8
## 234	5000	1	33	6
## 235	5000	1	44	4
## 236	4500	1	67	12
## 237	5000	1	10	3
## 238	4500	1	33	8
## 239	4050	1	44	8
## 240	4300	1	120	8
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## 243	4700	1	66	8
## 244	4355	1	30	8
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## 246	4500	1	33	8
## 247	3279	1	NA	6
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## 249	6000	1	80	8
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## 255	4800	1	67	8
## 256	4200	1	33	8
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## 266	4500	1	65	12
## 267	5000	1	100	8

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## 274	5000	1	67	8
## 275	4600	1	120	8
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## 295	4610	1	125	12
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## 297	4500	1	67	8
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## 304	4250	1	33	6
## 305	3300	1	15	8
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## 308	5000	1	25	4
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## 345	3240	1	NA	4
## 346	4700	1	120	12
## 347	4870	1	120	8
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## 352	4030	0	NA	4
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## 355	5000	1	18	8
## 356	5000	1	33	4
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## 361	4350	1	120	8
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## 364	4300	1	44	8
## 365	4800	1	150	12
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## 406	5160	1	67	6
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## 415	5000	0	NA	6
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## 417	3200	1	NA	6

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## 437	4500	1	25	8
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## 465	4700	1	80	8
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## 474	3500	0	NA	3
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## 476	5000	0	NA	2
## 477	3020	0	NA	2
## 478	4730	1	80	12
## 479	4700	1	66	12
## 480	7000	1	33	6
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## 485	6000	1	45	8
## 486	4500	1	66	8
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## 494	4500	1	80	6
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## 510	4080	1	18	8
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## 804	5000	1	33	8
## 805	6000	0	NA	4
## 806	4500	1	67	8
## 807	5000	1	18	4
## 808	5000	1	67	6
## 809	5000	1	18	4
## 810	6000	1	18	8
## 811	5000	1	18	4
## 812	4800	0	NA	3
## 813	5020	1	18	4
## 814	3240	1	NA	4
## 815	5000	0	NA	4
## 816	4500	1	65	8
## 817	4500	1	67	8

## 818	2000	0	NA	2
## 819	4250	1	33	8
## 820	5000	1	18	4
## 821	4520	1	33	8
## 822	5000	1	120	16
## 823	7000	1	NA	6
## 824	5000	1	18	4
## 825	NA	0	NA	6
## 826	5000	1	10	4
## 827	4300	1	30	6
## 828	3000	0	NA	1
## 829	4300	1	65	8
## 830	4230	0	NA	6
## 831	3600	1	18	4
## 832	4030	0	NA	2
## 833	4200	1	40	8
## 834	5000	1	18	4
## 835	5000	1	18	6
## 836	5020	1	22	4
## 837	5000	1	18	4
## 838	4000	1	10	4
## 839	3700	1	18	4
## 840	3100	1	15	4
## 841	4500	1	25	8
## 842	3000	0	NA	4
## 843	4100	0	NA	4
## 844	22000	1	33	12
## 845	5000	1	22	4
## 846	5000	1	45	8
## 847	5000	1	80	8
## 848	5000	1	18	6
## 849	4200	1	33	6
## 850	7000	0	NA	6
## 851	5000	0	NA	3
## 852	4000	1	66	8
## 853	5000	1	40	8
## 854	5000	1	NA	8
## 855	4500	1	120	8
## 856	4500	1	80	8
## 857	5000	1	18	4
## 858	4500	1	150	8
## 859	4350	1	120	12
## 860	5000	1	33	6
## 861	4500	1	33	8
## 862	3360	0	NA	8
## 863	5000	1	18	4
## 864	5000	1	44	8
## 865	5000	0	NA	4
## 866	5000	1	65	8
## 867	4500	1	30	6

## 868	6000	0	NA	3
## 869	7000	1	18	4
## 870	5000	1	67	6
## 871	6000	1	20	4
## 872	4500	1	65	8
## 873	5000	1	30	8
## 874	5000	1	30	8
## 875	2400	0	NA	1
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## 877	4350	1	65	8
## 878	4500	1	65	4
## 879	6000	1	15	4
## 880	5000	1	18	4
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## 882	NA	0	NA	4
## 883	4230	0	NA	3
## 884	5020	1	18	4
## 885	4230	0	NA	3
## 886	4200	1	65	8
## 887	4500	1	25	8
## 888	4000	1	27	8
## 889	4500	1	18	6
## 890	4000	0	NA	2
## 891	3200	0	NA	3
## 892	2500	0	NA	3
## 893	4532	1	NA	8
## 894	5000	1	18	4
## 895	5000	0	NA	4
## 896	5000	1	33	6
## 897	4500	1	80	8
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## 899	5000	1	10	3
## 900	5000	0	NA	3
## 901	5000	0	NA	3
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## 903	5000	1	10	4
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## 905	3000	1	10	3
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## 907	5000	1	33	6
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## 909	4800	1	150	12
## 910	5000	1	100	8
## 911	6000	1	NA	8
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## 914	4500	1	150	8
## 915	5000	1	18	4
## 916	5000	1	44	8
## 917	4600	1	66	12

## 918	5000	1	80	8
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## 920	4200	1	55	8
## 921	5000	1	33	6
## 922	4500	1	120	8
## 923	5000	1	15	8
## 924	3095	1	NA	6
## 925	5050	1	30	8
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## 928	5000	0	NA	3
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## 930	5065	1	67	6
## 931	4300	1	66	6
## 932	5000	1	NA	6
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## 945	6000	1	18	4
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## 948	4780	1	30	8
## 949	5000	0	NA	4
## 950	4300	1	30	8
## 951	3730	1	NA	12
## 952	4500	1	NA	12
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## 954	4000	0	NA	2
## 955	4500	1	55	8
## 956	3400	1	NA	6
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## 958	2730	0	NA	3
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## 978	5080		1	67	8
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## 980	5000		1	NA	8
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	num_front_cameras				
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## 2	128	6.59	120	3	
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extended_memory_available				
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## 6	android	50.0	8.0	
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## 7	ios	12.0	12.0	
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0		
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0		
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## 683	ios	12.0	12.0
0			
## 684	android	50.0	8.0
1			
## 685	android	48.0	16.0
1			
## 686	android	48.0	20.0
1			
## 687	android	48.0	16.0

1			
## 688 android	64.0	16.0	
0			
## 689 android	64.0	16.0	
1			
## 690 android	16.0	13.0	
1			
## 691 android	13.0	8.0	
1			
## 692 android	48.0	16.0	
1			
## 693 android	48.0	16.0	
1			
## 694 android	48.0	32.0	
1			
## 695 android	12.0	10.0	
1			
## 696 android	13.0	16.0	
1			
## 697 android	48.0	32.0	
1			
## 698 android	64.0	32.0	
1			
## 699 android	64.0	44.0	
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## 700 <NA>	50.0	12.0	
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## 701 android	64.0	32.0	
0			
## 702 android	108.0	20.0	
0			
## 703 other	64.0	13.0	
0			
## 704 android	13.0	5.0	
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## 705 <NA>	50.0	10.7	
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## 706 android	50.0	16.0	
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## 707 ios	50.0	13.0	
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## 708 android	50.0	16.0	
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## 709 android	16.0	8.0	
1			
## 710 android	13.0	8.0	
1			
## 711 android	50.0	32.0	
0			
## 712 android	50.0	8.0	

1			
## 713	other	50.0	32.0
0			
## 714	android	5.0	5.0
1			
## 715	other	50.0	13.0
1			
## 716	android	48.0	20.0
0			
## 717	android	5.0	5.0
1			
## 718	android	48.0	16.0
1			
## 719	android	50.0	32.0
0			
## 720	android	64.0	16.0
1			
## 721	android	50.0	32.0
0			
## 722	android	48.0	8.0
1			
## 723	android	8.0	8.0
1			
## 724	android	64.0	44.0
0			
## 725	android	108.0	20.0
0			
## 726	android	48.0	32.0
1			
## 727	android	64.0	10.0
1			
## 728	android	16.0	16.0
1			
## 729	android	64.0	32.0
1			
## 730	android	64.0	16.0
1			
## 731	android	13.0	8.0
1			
## 732	android	12.0	20.0
1			
## 733	android	8.0	5.0
1			
## 734	android	20.0	13.0
1			
## 735	android	50.0	20.0
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## 736	android	50.0	32.0
0			
## 737	android	200.0	50.0

0			
## 738	ios	12.0	10.8
0			
## 739	android	50.0	8.0
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## 740	ios	48.0	12.0
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## 741	android	50.0	10.1
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0			
## 743	android	50.0	16.0
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## 744	android	50.0	32.0
0			
## 745	android	50.0	16.0
0			
## 746	android	50.0	32.0
0			
## 747	android	13.0	8.0
1			
## 748	android	64.0	16.0
0			
## 749	android	48.0	5.0
1			
## 750	android	50.0	10.0
0			
## 751	android	50.0	16.0
1			
## 752	android	108.0	16.0
1			
## 753	android	50.0	32.0
0			
## 754	android	13.0	8.0
1			
## 755	android	13.0	8.0
1			
## 756	android	13.0	5.0
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## 757	ios	12.0	12.0
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## 759	android	64.0	50.0
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## 760	android	48.0	13.0
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## 761	android	50.0	20.0
0			
## 762	android	8.0	5.0

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## 763 android	13.0	5.0
1		
## 764 android	13.0	16.0
1		
## 765 android	48.0	13.0
1		
## 766 android	108.0	20.0
0		
## 767 android	48.0	16.0
1		
## 768 android	13.0	16.0
1		
## 769 android	13.0	8.0
1		
## 770 android	8.0	5.0
1		
## 771 android	48.0	8.0
1		
## 772 android	64.0	10.0
0		
## 773 android	48.0	16.0
1		
## 774 android	64.0	10.0
1		
## 775 android	64.0	16.0
1		
## 776 android	50.0	32.0
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## 777 android	13.0	8.0
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## 779 android	13.0	20.0
1		
## 780 android	16.0	25.0
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## 781 android	12.0	8.0
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## 782 android	50.0	16.0
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## 783 android	13.0	5.0
0		
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1		
## 785 android	47.2	12.6
1		
## 786 android	50.0	32.0
0		
## 787 android	50.0	8.0

1			
## 788	android	64.0	16.0
0			
## 789	ios	12.0	12.0
0			
## 790	ios	48.0	12.0
0			
## 791	android	64.0	16.0
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## 793	android	13.0	5.0
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## 794	android	48.0	16.0
1			
## 795	android	48.0	32.0
0			
## 796	android	8.0	5.0
1			
## 797	android	108.0	20.0
0			
## 798	android	13.0	8.0
1			
## 799	android	50.0	16.0
1			
## 800	android	64.0	32.0
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## 801	android	64.0	32.0
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## 802	android	50.0	32.0
0			
## 803	android	64.0	32.0
1			
## 804	android	50.0	16.0
1			
## 805	android	48.0	8.0
1			
## 806	android	50.0	16.0
1			
## 807	android	50.0	5.0
0			
## 808	android	108.0	16.0
1			
## 809	android	50.0	8.0
1			
## 810	android	50.0	8.0
0			
## 811	android	50.0	8.0
1			
## 812	android	13.0	5.0

1			
##	813	android	48.0 16.0
1			
##	814	ios	12.0 12.0
0			
##	815	android	50.0 8.0
1			
##	816	android	50.0 32.0
0			
##	817	android	50.0 32.0
0			
##	818	<NA>	5.0 2.0
0			
##	819	android	64.0 16.0
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##	820	android	48.0 16.0
1			
##	821	android	108.0 20.0
0			
##	822	android	64.0 20.0
0			
##	823	android	64.0 32.0
1			
##	824	android	13.0 8.0
0			
##	825	ios	12.0 12.0
0			
##	826	android	13.0 5.0
1			
##	827	android	64.0 16.0
1			
##	828	android	8.0 5.0
1			
##	829	android	64.0 32.0
0			
##	830	android	12.0 8.0
1			
##	831	android	12.0 8.0
1			
##	832	android	13.0 5.0
1			
##	833	android	48.0 16.0
1			
##	834	android	16.0 16.0
1			
##	835	android	16.0 16.0
1			
##	836	android	48.0 13.0
1			
##	837	android	12.0 8.0

1			
##	838 android	13.0	8.0
1			
##	839 android	12.2	8.0
0			
##	840 android	16.0	25.0
1			
##	841 android	16.0	10.0
1			
##	842 android	13.0	16.0
1			
##	843 android	13.0	5.0
1			
##	844 android	108.0	32.0
1			
##	845 other	50.0	5.0
1			
##	846 android	64.0	16.0
1			
##	847 android	64.0	32.0
1			
##	848 android	50.0	8.0
1			
##	849 android	50.0	16.0
1			
##	850 android	16.0	8.0
1			
##	851 android	13.0	8.0
1			
##	852 other	50.0	60.0
0			
##	853 other	50.0	8.0
1			
##	854 android	48.0	16.0
0			
##	855 android	108.0	16.0
1			
##	856 android	50.0	32.0
0			
##	857 android	50.0	8.0
1			
##	858 android	50.0	16.0
0			
##	859 android	48.0	16.0
0			
##	860 android	64.0	16.0
1			
##	861 android	48.0	16.0
1			
##	862 <NA>	64.0	32.0

0			
##	863 android	48.0	16.0
0			
##	864 android	50.0	48.0
0			
##	865 android	50.0	8.0
1			
##	866 android	64.0	16.0
0			
##	867 android	12.0	8.0
1			
##	868 android	13.0	5.0
1			
##	869 android	48.0	8.0
1			
##	870 android	50.0	16.0
1			
##	871 android	64.0	16.0
1			
##	872 android	108.0	16.0
0			
##	873 android	64.0	16.0
1			
##	874 android	48.0	16.0
1			
##	875 android	5.0	2.0
0			
##	876 android	108.0	40.0
0			
##	877 android	64.0	32.0
0			
##	878 android	48.0	13.0
1			
##	879 android	48.0	8.0
1			
##	880 android	13.0	8.0
1			
##	881 ios	12.0	12.0
0			
##	882 ios	12.0	12.0
0			
##	883 android	13.0	5.0
1			
##	884 android	48.0	16.0
1			
##	885 android	13.0	5.0
1			
##	886 android	64.0	32.0
0			
##	887 android	64.0	10.0

1			
## 888	android	48.0	20.0
0			
## 889	android	64.0	20.0
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## 890	android	13.0	8.0
1			
## 891	android	13.0	16.0
1			
## 892	android	13.0	13.0
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## 893	ios	12.0	12.0
0			
## 894	android	50.0	8.0
1			
## 895	android	13.0	8.0
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## 896	android	50.0	16.0
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## 897	android	50.0	32.0
0			
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## 899	android	8.0	5.0
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## 900	android	13.0	8.0
1			
## 901	android	13.0	8.0
1			
## 902	android	50.0	16.0
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## 903	android	50.0	5.0
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## 904	android	50.0	32.0
0			
## 905	android	13.0	5.0
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## 906	android	50.0	10.0
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## 907	android	50.0	16.0
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## 908	android	200.0	60.0
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## 909	android	50.0	16.0
0			
## 910	android	50.0	16.0
0			
## 911	android	64.0	32.0
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## 912	android	48.0	5.0

1			
##	913 android	50.0	16.0
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##	914 android	64.0	20.0
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##	915 android	50.0	16.0
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##	916 android	50.0	16.0
1			
##	917 android	50.0	16.0
0			
##	918 android	50.0	16.0
0			
##	919 android	13.0	8.0
1			
##	920 android	50.0	16.0
0			
##	921 android	50.0	16.0
1			
##	922 android	108.0	16.0
1			
##	923 android	64.0	8.0
1			
##	924 ios	12.0	12.0
0			
##	925 android	64.0	8.0
0			
##	926 android	13.0	5.0
1			
##	927 other	200.0	16.0
1			
##	928 android	13.0	8.0
1			
##	929 android	64.0	16.0
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##	930 android	64.0	16.0
0			
##	931 android	108.0	32.0
0			
##	932 android	13.0	16.0
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##	933 android	50.0	16.0
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##	934 android	48.0	16.0
0			
##	935 android	8.0	5.0
1			
##	936 android	48.0	13.0
1			
##	937 android	64.0	16.0

0		
## 938 android	16.0	8.0
0		
## 939 android	48.0	8.0
1		
## 940 android	64.0	32.0
1		
## 941 android	48.0	13.0
1		
## 942 android	13.0	5.0
1		
## 943 android	48.0	32.0
1		
## 944 android	13.0	16.0
1		
## 945 android	48.0	8.0
1		
## 946 android	8.0	5.0
1		
## 947 android	13.0	5.0
1		
## 948 android	108.0	20.0
0		
## 949 android	13.0	13.0
1		
## 950 android	64.0	16.0
0		
## 951 android	48.0	16.0
1		
## 952 android	40.0	32.0
1		
## 953 android	13.0	8.0
1		
## 954 android	13.0	5.0
1		
## 955 <NA>	48.0	NA
0		
## 956 android	24.0	24.0
1		
## 957 android	24.0	24.0
1		
## 958 android	13.0	5.0
1		
## 959 android	50.0	5.0
1		
## 960 android	13.0	8.0
1		
## 961 android	50.0	8.0
1		
## 962 android	13.0	8.0

```

1
## 963 android          108.0          32.0
1
## 964 android           8.0           5.0
1
## 965 android          50.0          32.0
0
## 966 android          20.0          13.0
1
## 967 android          16.0           8.0
1
## 968 android          50.0          32.0
0
## 969 android          50.0          32.0
0
## 970 android          64.0          32.0
0
## 971 android           8.0           5.0
1
## 972 android          50.0          32.0
0
## 973 android           2.0           NA
0
## 974 android          50.0          12.0
0
## 975 android          50.0          32.0
0
## 976 android          64.0          16.0
0
## 977 android          48.0           8.0
1
## 978 android          64.0          16.0
0
## 979 android          108.0          32.0
1
## 980 android          64.0          32.0
1
##      extended_upto resolution_width resolution_height
## 1          NA          1440          3216
## 2         1024          1080          2412
## 3         1024          1080          2408
## 4         1024          1080          2400
## 5          NA          1080          2412
## 6         1024          1080          2408
## 7          NA          1170          2532
## 8          NA          1080          2400
## 9          NA          1080          2400
## 10         NA          1080          2400
## 11        1024          1080          2400
## 12         NA           720          1612

```

## 13	NA	1080	2400
## 14	1024	1080	2408
## 15	NA	1440	3088
## 16	NA	1170	2532
## 17	NA	720	1600
## 18	NA	1080	2412
## 19	NA	1080	2412
## 20	1024	720	1612
## 21	NA	1080	2412
## 22	NA	1080	2376
## 23	1024	1080	2400
## 24	1024	1080	2400
## 25	NA	1080	2400
## 26	NA	1080	2400
## 27	1024	1080	2412
## 28	NA	1290	2796
## 29	1024	1080	2408
## 30	NA	1440	3216
## 31	1024	1080	2400
## 32	NA	1080	2400
## 33	NA	1080	2400
## 34	NA	828	1792
## 35	1024	1080	2400
## 36	NA	1080	2340
## 37	1024	1080	2400
## 38	NA	1440	3080
## 39	512	1080	2460
## 40	NA	1080	2412
## 41	1024	1080	2412
## 42	1024	1080	2400
## 43	1024	1080	2400
## 44	NA	1080	2412
## 45	1024	1080	2408
## 46	1024	1080	2400
## 47	512	1080	2400
## 48	1024	720	1600
## 49	NA	720	1600
## 50	1024	1080	2412
## 51	1024	1080	2408
## 52	NA	1080	2400
## 53	512	720	1600
## 54	1024	1080	2400
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## 56	1024	1080	2408
## 57	NA	1284	2778
## 58	512	1080	2400
## 59	NA	1080	2340
## 60	1024	1080	2400
## 61	NA	1080	2460
## 62	NA	1080	2400

## 63	1024	1080	2408
## 64	1024	720	1612
## 65	1024	1080	2400
## 66	NA	1080	2400
## 67	NA	1440	3216
## 68	NA	1080	2400
## 69	1024	1080	2408
## 70	NA	1792	1920
## 71	1024	720	1612
## 72	NA	1080	2400
## 73	1024	1080	2408
## 74	NA	1080	2412
## 75	1024	1080	2400
## 76	NA	720	1600
## 77	NA	1170	2532
## 78	1024	1080	2400
## 79	1024	1080	2400
## 80	512	720	1600
## 81	NA	1080	2400
## 82	1024	1080	2408
## 83	1024	1080	2400
## 84	1024	1080	2408
## 85	1024	720	1600
## 86	NA	1080	2400
## 87	1024	1080	2408
## 88	1024	720	1612
## 89	512	1080	2400
## 90	1024	1080	2400
## 91	1024	720	1600
## 92	NA	1080	2412
## 93	1024	1080	2400
## 94	NA	1440	3200
## 95	1024	720	1600
## 96	1024	1080	2412
## 97	1024	720	1612
## 98	NA	1440	3200
## 99	NA	1916	2160
## 100	1024	1080	2408
## 101	NA	1179	2556
## 102	512	1080	2400
## 103	NA	1080	2460
## 104	1024	1080	2408
## 105	256	1080	2400
## 106	NA	1440	3200
## 107	NA	1080	2400
## 108	NA	1080	2340
## 109	1024	1080	2408
## 110	NA	1080	2412
## 111	NA	1080	2400
## 112	NA	1170	2532

## 113	NA	1080	2460
## 114	1024	1080	2400
## 115	512	720	1600
## 116	NA	1080	2400
## 117	1024	1080	2400
## 118	NA	1080	2404
## 119	NA	1080	2448
## 120	NA	1080	2340
## 121	NA	1080	2400
## 122	NA	1080	2400
## 123	NA	1080	2400
## 124	2048	1080	2400
## 125	1024	1080	2400
## 126	NA	1080	2400
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## 128	1024	1080	2412
## 129	1024	1080	2400
## 130	NA	1080	2400
## 131	512	1080	2408
## 132	512	1080	2400
## 133	1024	720	1600
## 134	NA	1080	2400
## 135	1024	1080	2400
## 136	1024	1080	2400
## 137	NA	828	1792
## 138	1024	1080	2408
## 139	1024	1080	2412
## 140	NA	1080	2400
## 141	1024	1080	2408
## 142	NA	1080	2412
## 143	1024	1080	2400
## 144	128	720	1280
## 145	NA	720	1560
## 146	1024	720	1600
## 147	NA	1080	2400
## 148	NA	1080	2400
## 149	512	720	1600
## 150	NA	1080	2340
## 151	1024	1080	2400
## 152	NA	2460	1080
## 153	NA	1284	2778
## 154	1024	1080	2412
## 155	256	1080	2460
## 156	1024	720	1600
## 157	1024	1080	2400
## 158	256	1080	2400
## 159	NA	1792	1920
## 160	256	1080	2400
## 161	1024	1080	2400
## 162	NA	1284	2778

## 163	NA	1080	2412
## 164	NA	1260	2800
## 165	1024	2408	1080
## 166	512	1080	2400
## 167	1024	1080	2400
## 168	NA	1080	2400
## 169	1024	1080	2408
## 170	NA	720	1560
## 171	512	1080	2460
## 172	256	1080	2400
## 173	NA	1080	2400
## 174	NA	750	1334
## 175	1024	1080	2408
## 176	512	1080	2400
## 177	256	1080	2412
## 178	NA	1080	2408
## 179	1024	1080	2408
## 180	1024	1080	2400
## 181	NA	1080	2400
## 182	256	720	1600
## 183	NA	1080	2400
## 184	1024	1080	2408
## 185	1024	1080	2408
## 186	NA	1080	2400
## 187	1024	1080	2400
## 188	128	720	1600
## 189	NA	720	1600
## 190	128	720	1560
## 191	NA	640	960
## 192	1024	1080	2412
## 193	NA	1400	3200
## 194	NA	1080	2400
## 195	1024	1080	2408
## 196	NA	1080	2412
## 197	1024	1080	2412
## 198	1024	1080	2400
## 199	1024	720	1600
## 200	NA	720	1600
## 201	1024	1080	2408
## 202	NA	1080	2400
## 203	NA	1440	3200
## 204	NA	2460	1080
## 205	512	1080	2400
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## 207	1024	1080	2400
## 208	512	720	1600
## 209	NA	1080	2400
## 210	NA	1290	2796
## 211	NA	1080	2376
## 212	1024	1080	2400

## 213	256	1080	2412
## 214	1024	1600	720
## 215	NA	1080	2400
## 216	NA	1440	3120
## 217	256	1080	2460
## 218	NA	1080	2376
## 219	1024	720	1600
## 220	NA	1440	3200
## 221	NA	1080	2400
## 222	1024	1080	2408
## 223	NA	1080	2400
## 224	512	1080	2400
## 225	1024	720	1600
## 226	512	720	1600
## 227	1024	1080	2400
## 228	NA	1080	2400
## 229	NA	1080	2412
## 230	NA	1440	3216
## 231	NA	1440	3200
## 232	NA	1080	2408
## 233	NA	720	1650
## 234	1024	720	1612
## 235	1024	1080	2408
## 236	NA	1914	2160
## 237	NA	720	1600
## 238	1024	1080	2400
## 239	1024	1080	2400
## 240	512	1080	2400
## 241	NA	720	1612
## 242	1024	1080	2412
## 243	1024	1080	2404
## 244	NA	1080	2400
## 245	1024	1080	2400
## 246	512	1080	2400
## 247	NA	1170	2532
## 248	NA	1080	2400
## 249	NA	1116	2480
## 250	1024	1080	2400
## 251	NA	1080	2400
## 252	2048	1080	2400
## 253	1024	1080	2408
## 254	NA	1080	2400
## 255	1024	1080	2412
## 256	NA	1080	2400
## 257	NA	1080	2340
## 258	NA	1080	2408
## 259	512	720	1600
## 260	512	1080	2400
## 261	512	1080	2460
## 262	512	720	1600

## 263	NA	828	1792
## 264	1024	1080	2400
## 265	2048	1080	2400
## 266	NA	1080	2400
## 267	NA	1080	2412
## 268	1024	1080	2400
## 269	NA	1080	2400
## 270	1024	1080	2400
## 271	NA	1440	3120
## 272	512	1080	2400
## 273	512	1080	2408
## 274	1024	1080	2400
## 275	NA	1440	3200
## 276	NA	1080	2340
## 277	256	1080	2460
## 278	1024	720	1600
## 279	NA	1080	2448
## 280	NA	1080	2400
## 281	NA	1080	2340
## 282	1024	1080	2400
## 283	NA	1080	2400
## 284	1024	1080	2408
## 285	NA	1080	2400
## 286	NA	1080	2400
## 287	2048	1080	2400
## 288	1024	1080	2408
## 289	NA	1290	2796
## 290	1024	1080	2400
## 291	1024	1080	2400
## 292	512	1080	2400
## 293	NA	720	1600
## 294	1024	1080	2408
## 295	NA	1080	2400
## 296	512	1080	2400
## 297	NA	1080	2400
## 298	512	720	1600
## 299	NA	720	1600
## 300	NA	1080	2460
## 301	1024	720	1600
## 302	512	1080	2400
## 303	512	720	1600
## 304	NA	1080	2400
## 305	NA	1080	2640
## 306	NA	1170	2532
## 307	NA	1080	2412
## 308	1024	1080	2408
## 309	1024	1080	2400
## 310	NA	1080	2400
## 311	1024	1080	2400
## 312	NA	1440	3080

## 313	NA	1080	2400
## 314	32	1600	720
## 315	NA	1080	2400
## 316	1024	720	1600
## 317	NA	1080	2400
## 318	NA	1080	2388
## 319	NA	1440	3200
## 320	NA	1812	2176
## 321	NA	1440	1920
## 322	NA	1284	2778
## 323	1024	1080	2400
## 324	256	720	1600
## 325	NA	1080	2400
## 326	512	1080	2400
## 327	NA	1440	3200
## 328	256	720	1640
## 329	NA	1080	2408
## 330	256	1080	2400
## 331	NA	1080	2404
## 332	1024	1080	2400
## 333	1024	1080	2412
## 334	NA	1080	2400
## 335	512	2400	1080
## 336	1024	720	1600
## 337	1024	1080	2460
## 338	NA	1440	3216
## 339	512	1080	2400
## 340	512	720	1600
## 341	NA	1080	2460
## 342	1024	720	1600
## 343	1024	1080	2400
## 344	NA	1080	2400
## 345	NA	1170	2532
## 346	NA	1080	2400
## 347	NA	1260	2800
## 348	1024	720	1600
## 349	1024	720	1600
## 350	512	720	1600
## 351	512	720	1440
## 352	256	1520	720
## 353	NA	1440	3200
## 354	1024	720	1600
## 355	1024	1612	720
## 356	NA	720	1600
## 357	512	720	1600
## 358	NA	1080	2400
## 359	256	1080	2400
## 360	NA	1220	2712
## 361	NA	1080	2376
## 362	NA	1080	2340

## 363	NA	1200	2860
## 364	NA	1200	2400
## 365	NA	1080	2412
## 366	256	720	1600
## 367	NA	1080	2340
## 368	1024	1080	2400
## 369	1024	1644	3840
## 370	NA	1080	2400
## 371	512	1080	2400
## 372	1024	1080	2400
## 373	NA	1080	2280
## 374	512	1440	3040
## 375	NA	1080	2400
## 376	256	1080	2400
## 377	NA	1080	2400
## 378	NA	1080	2400
## 379	1024	1080	2400
## 380	NA	720	1600
## 381	NA	720	1560
## 382	256	720	1612
## 383	1024	1080	2408
## 384	1024	1080	2404
## 385	NA	1080	2400
## 386	1024	720	1600
## 387	1024	1080	2412
## 388	1024	1080	2400
## 389	256	1080	2400
## 390	NA	1080	2520
## 391	1024	1080	2400
## 392	NA	1080	2400
## 393	256	1080	2412
## 394	512	1080	2400
## 395	NA	720	1600
## 396	512	1080	2400
## 397	NA	1600	720
## 398	NA	1080	2412
## 399	NA	1290	2796
## 400	512	720	1600
## 401	1024	1440	3214
## 402	1024	1080	2412
## 403	1024	1080	2400
## 404	NA	1440	3200
## 405	NA	1080	2400
## 406	1024	2400	1080
## 407	NA	1080	2448
## 408	NA	720	1600
## 409	1024	1080	2412
## 410	1024	720	1560
## 411	NA	1080	2400
## 412	NA	1080	2400

## 413	NA	1080	2400
## 414	NA	1080	2400
## 415	512	720	1600
## 416	NA	1080	2400
## 417	NA	1179	2556
## 418	NA	1080	2400
## 419	NA	1080	2400
## 420	NA	1440	3200
## 421	NA	1080	2400
## 422	NA	1440	3216
## 423	NA	1080	2376
## 424	256	720	1600
## 425	NA	1080	2400
## 426	NA	1080	2400
## 427	512	1080	2400
## 428	NA	1080	1920
## 429	1024	1080	2400
## 430	512	1080	2460
## 431	NA	1080	2400
## 432	NA	1080	2460
## 433	1024	720	1600
## 434	1024	720	1600
## 435	512	1080	2400
## 436	NA	750	1334
## 437	1024	1080	2400
## 438	NA	1080	2400
## 439	512	720	1600
## 440	1024	1080	2400
## 441	512	720	1600
## 442	NA	1080	2448
## 443	NA	1080	2400
## 444	512	720	1600
## 445	NA	1170	2532
## 446	1024	1080	2408
## 447	512	720	1640
## 448	NA	1080	2400
## 449	1024	1080	2408
## 450	NA	1080	2340
## 451	1024	720	1600
## 452	512	720	1650
## 453	NA	1080	2400
## 454	512	720	1680
## 455	NA	1080	2400
## 456	NA	1080	2460
## 457	512	1080	2400
## 458	1024	720	1600
## 459	NA	2088	2250
## 460	NA	1080	2412
## 461	NA	1080	2400
## 462	1024	2408	1080

## 463	512	720	1600
## 464	256	1640	720
## 465	1024	1080	2400
## 466	NA	1080	2400
## 467	NA	1080	2400
## 468	256	720	1600
## 469	512	1080	2400
## 470	1024	1080	2400
## 471	1024	1440	3200
## 472	256	1080	2246
## 473	128	480	854
## 474	64	1080	1920
## 475	1024	720	1600
## 476	1024	720	1600
## 477	NA	854	480
## 478	NA	1916	2160
## 479	256	1212	2616
## 480	1024	1080	2400
## 481	1024	1080	2400
## 482	NA	1080	2520
## 483	256	720	1544
## 484	NA	1644	3840
## 485	1024	720	1600
## 486	NA	1080	2160
## 487	NA	1080	2408
## 488	NA	1080	2400
## 489	NA	720	1600
## 490	NA	1080	2400
## 491	1024	720	1600
## 492	NA	1080	2460
## 493	1024	1080	2400
## 494	1024	1080	2388
## 495	NA	1080	2340
## 496	512	1080	2400
## 497	1024	720	1600
## 498	1024	1080	2400
## 499	NA	1080	2640
## 500	NA	1080	2280
## 501	NA	1440	2880
## 502	512	720	1600
## 503	NA	1080	2400
## 504	256	1080	2412
## 505	1024	720	1600
## 506	1024	1080	2400
## 507	1024	1080	2408
## 508	NA	1080	2412
## 509	1024	1080	2400
## 510	NA	1080	2340
## 511	NA	1440	3412
## 512	NA	1080	2400

## 513	1024	1080	2400
## 514	NA	1080	2412
## 515	NA	1080	2400
## 516	1024	1080	2400
## 517	NA	720	1612
## 518	NA	1080	2400
## 519	1024	720	1600
## 520	NA	1080	2460
## 521	NA	1440	3216
## 522	NA	1170	2532
## 523	NA	1080	2400
## 524	1024	2408	1080
## 525	1024	1080	2400
## 526	512	1080	2400
## 527	NA	1080	2412
## 528	NA	1440	3120
## 529	256	720	1600
## 530	256	720	1612
## 531	512	1080	2400
## 532	512	720	1600
## 533	NA	1116	2480
## 534	NA	1440	3200
## 535	1024	1080	2412
## 536	NA	1080	2388
## 537	NA	1080	2340
## 538	NA	1080	2460
## 539	NA	1080	2408
## 540	1024	1080	2400
## 541	1024	1080	2400
## 542	1024	1080	2400
## 543	NA	1080	2408
## 544	NA	1080	2400
## 545	512	1080	2400
## 546	NA	1080	2400
## 547	256	1080	2400
## 548	1024	1440	3200
## 549	NA	1440	3200
## 550	1024	720	1600
## 551	NA	1080	2400
## 552	256	1080	2460
## 553	NA	1440	3200
## 554	1024	720	1600
## 555	1024	1080	2400
## 556	256	720	1600
## 557	NA	1080	2448
## 558	NA	1080	2400
## 559	1024	720	1600
## 560	NA	1116	2480
## 561	NA	1768	2208
## 562	NA	1080	2460

## 563	512	1080	2400
## 564	1024	1080	2400
## 565	NA	720	1440
## 566	1024	720	1600
## 567	NA	720	1612
## 568	1024	1080	2400
## 569	NA	1080	2412
## 570	NA	1080	2400
## 571	NA	720	1600
## 572	NA	1080	2460
## 573	NA	1080	2412
## 574	NA	1080	2404
## 575	512	720	1600
## 576	1024	1080	2408
## 577	256	720	1600
## 578	512	720	1600
## 579	NA	1080	2460
## 580	NA	1080	2412
## 581	1024	2400	1080
## 582	NA	1080	2400
## 583	NA	1440	3200
## 584	256	720	1600
## 585	512	720	1600
## 586	NA	720	1440
## 587	NA	1080	2340
## 588	512	1080	2400
## 589	256	720	1600
## 590	1024	1080	2408
## 591	NA	1080	2400
## 592	256	1080	2400
## 593	NA	1080	2400
## 594	1024	1440	3200
## 595	NA	1242	2688
## 596	NA	750	1334
## 597	1024	1080	2400
## 598	1024	720	1600
## 599	1024	1080	2400
## 600	NA	1080	2400
## 601	NA	1080	2400
## 602	NA	1080	2400
## 603	1024	1080	2460
## 604	1024	1080	2400
## 605	1024	1080	2408
## 606	512	1080	2400
## 607	1024	1080	2460
## 608	256	1080	2412
## 609	256	720	1600
## 610	1024	1080	2400
## 611	256	720	1600
## 612	NA	720	1600

## 613	NA	1080	2400
## 614	NA	1170	2532
## 615	NA	1644	3840
## 616	NA	1080	2340
## 617	NA	1080	2400
## 618	NA	720	1560
## 619	NA	1080	2400
## 620	NA	1080	2400
## 621	1024	720	1600
## 622	NA	1170	2532
## 623	NA	1080	2400
## 624	NA	1080	2460
## 625	NA	1080	2412
## 626	NA	1440	3080
## 627	NA	1080	2400
## 628	NA	1080	2400
## 629	NA	720	1600
## 630	1024	1440	3200
## 631	1024	1080	2408
## 632	256	1344	2772
## 633	256	720	1600
## 634	NA	1080	2448
## 635	NA	1080	2400
## 636	1024	1080	2400
## 637	NA	720	1600
## 638	512	720	1600
## 639	NA	750	1334
## 640	NA	720	1560
## 641	NA	1080	2400
## 642	NA	1080	2408
## 643	NA	1080	2400
## 644	NA	1080	2400
## 645	256	720	1612
## 646	1024	1080	2400
## 647	128	1612	720
## 648	NA	1080	2412
## 649	NA	1080	2408
## 650	NA	1344	2772
## 651	NA	1080	2408
## 652	512	720	1600
## 653	256	1600	720
## 654	NA	720	1560
## 655	512	1080	2460
## 656	NA	1080	2400
## 657	NA	1080	2400
## 658	512	1080	2400
## 659	512	1080	2400
## 660	NA	2400	1080
## 661	NA	1080	2460
## 662	1024	1080	2340

## 663	NA	1080	2460
## 664	1024	1080	2400
## 665	512	1440	3040
## 666	NA	1080	2400
## 667	1024	720	1600
## 668	1024	720	1600
## 669	1024	720	1600
## 670	128	1612	720
## 671	512	1080	2400
## 672	1024	1080	2400
## 673	1024	1080	2400
## 674	1024	1080	2408
## 675	256	1080	2460
## 676	NA	720	1600
## 677	512	720	1600
## 678	NA	1080	2520
## 679	NA	1080	2400
## 680	512	720	1600
## 681	NA	1080	2400
## 682	NA	1792	1920
## 683	NA	1284	2778
## 684	1024	720	1600
## 685	256	1080	2400
## 686	512	1080	2340
## 687	256	1080	2400
## 688	NA	1440	3200
## 689	512	1080	2400
## 690	256	720	1520
## 691	512	1080	2340
## 692	256	1080	2400
## 693	1024	1080	2400
## 694	512	1080	2340
## 695	1024	1440	3040
## 696	256	720	1544
## 697	256	1080	2340
## 698	1024	1080	2408
## 699	NA	1080	2400
## 700	NA	1080	2448
## 701	NA	1080	2400
## 702	NA	1220	2712
## 703	NA	1440	3200
## 704	1024	720	1600
## 705	NA	2200	2480
## 706	1024	1080	2412
## 707	NA	1170	2532
## 708	2048	1080	2460
## 709	256	720	1600
## 710	NA	720	1600
## 711	NA	1440	3200
## 712	512	1080	2400

## 713	NA	1080	2340
## 714	NA	720	1520
## 715	256	1288	2700
## 716	NA	1440	3200
## 717	256	720	1440
## 718	NA	1080	2400
## 719	NA	1080	2400
## 720	NA	1080	2520
## 721	NA	1440	3216
## 722	512	1080	2340
## 723	32	1600	720
## 724	NA	1080	2400
## 725	NA	1080	2400
## 726	512	1080	2400
## 727	1024	1440	3200
## 728	256	1080	2340
## 729	256	1080	2340
## 730	256	1080	2340
## 731	256	720	1544
## 732	256	1080	2246
## 733	512	720	1600
## 734	128	720	1600
## 735	NA	1440	3200
## 736	NA	1080	2400
## 737	NA	1200	2652
## 738	NA	750	1580
## 739	1024	1080	2400
## 740	NA	1290	2796
## 741	NA	1080	2400
## 742	NA	1080	2408
## 743	NA	2460	1080
## 744	NA	1080	2412
## 745	NA	1440	3080
## 746	NA	1440	3216
## 747	1024	720	1600
## 748	NA	1080	2388
## 749	1024	720	1560
## 750	NA	1080	2340
## 751	1024	1080	2408
## 752	1024	2400	1080
## 753	NA	1440	3216
## 754	256	720	1600
## 755	1024	720	1600
## 756	512	720	1600
## 757	NA	1284	2778
## 758	NA	720	1600
## 759	NA	1080	2400
## 760	1024	720	1600
## 761	NA	1440	3200
## 762	256	720	1600

## 763	1024	720	1600
## 764	256	1600	720
## 765	NA	1080	2340
## 766	NA	1860	2480
## 767	1024	1080	2400
## 768	256	1600	720
## 769	256	720	1600
## 770	32	720	1600
## 771	512	1080	2340
## 772	NA	1080	2400
## 773	512	1080	2400
## 774	1024	1440	3200
## 775	256	1080	2400
## 776	256	1200	2640
## 777	256	720	1544
## 778	256	1080	2316
## 779	256	1520	720
## 780	256	1080	2280
## 781	512	1440	2960
## 782	NA	1080	2400
## 783	NA	720	1600
## 784	1024	720	1600
## 785	1024	1260	2730
## 786	NA	1080	2460
## 787	NA	1080	2460
## 788	NA	1080	2400
## 789	NA	1284	2778
## 790	NA	1179	2556
## 791	1024	1080	2408
## 792	512	1080	2400
## 793	NA	720	1600
## 794	NA	720	1612
## 795	NA	1080	2400
## 796	1024	720	1600
## 797	NA	1220	2712
## 798	NA	720	1612
## 799	512	2400	1080
## 800	NA	1080	2400
## 801	1024	1080	2400
## 802	NA	1080	2400
## 803	1024	1080	2400
## 804	NA	1080	2400
## 805	512	720	1600
## 806	1024	1080	2408
## 807	NA	1080	2408
## 808	1024	1080	2400
## 809	1024	1080	2408
## 810	NA	1080	2408
## 811	1024	1600	720
## 812	NA	720	1600

## 813	512	1080	2400
## 814	NA	1170	2532
## 815	256	1080	2480
## 816	NA	1080	2400
## 817	NA	1080	2400
## 818	NA	480	640
## 819	512	1080	2400
## 820	NA	1080	2400
## 821	NA	1080	2400
## 822	NA	1080	2400
## 823	1024	1080	2400
## 824	NA	720	1600
## 825	NA	1170	2532
## 826	512	720	1600
## 827	256	1080	2400
## 828	NA	720	1480
## 829	NA	1080	2400
## 830	256	720	1600
## 831	NA	1080	2520
## 832	256	720	1520
## 833	256	1080	2340
## 834	256	1080	2340
## 835	256	1080	2340
## 836	512	1080	2340
## 837	512	720	1520
## 838	512	720	1520
## 839	NA	1080	2160
## 840	512	1080	2340
## 841	512	1440	3040
## 842	256	1080	2280
## 843	128	1080	1920
## 844	2048	1080	2408
## 845	NA	720	1600
## 846	1024	1080	2412
## 847	NA	1080	2400
## 848	512	1080	2400
## 849	1024	1080	2400
## 850	512	720	1600
## 851	1024	720	1600
## 852	NA	1080	2400
## 853	NA	1080	2388
## 854	NA	1080	2400
## 855	256	1080	2400
## 856	NA	1080	2412
## 857	1024	1080	2408
## 858	NA	1080	2412
## 859	NA	1080	2376
## 860	512	1080	2400
## 861	NA	1080	2400
## 862	NA	1440	1920

## 863	NA	1080	2460
## 864	NA	1080	2400
## 865	NA	720	1600
## 866	NA	2400	1080
## 867	NA	1080	2520
## 868	256	720	1600
## 869	256	1080	2460
## 870	1024	1080	2400
## 871	256	1080	2460
## 872	NA	1080	2400
## 873	256	1080	2400
## 874	256	1080	2400
## 875	NA	854	480
## 876	NA	1440	3200
## 877	NA	1080	2400
## 878	256	1080	2400
## 879	1024	720	1600
## 880	256	720	1600
## 881	NA	1080	2340
## 882	NA	1170	2532
## 883	256	720	1600
## 884	512	1080	2400
## 885	256	1520	720
## 886	NA	1080	2400
## 887	1024	1440	3200
## 888	NA	1080	2340
## 889	512	1080	2340
## 890	256	720	1520
## 891	NA	1080	2160
## 892	64	1080	1920
## 893	NA	1284	2778
## 894	NA	1080	2408
## 895	256	720	1600
## 896	NA	1080	2460
## 897	NA	1080	2400
## 898	NA	720	1600
## 899	512	720	1600
## 900	NA	720	1612
## 901	256	720	1600
## 902	NA	1080	2460
## 903	NA	720	1600
## 904	NA	1080	2400
## 905	NA	720	1440
## 906	NA	1812	2176
## 907	NA	1080	2400
## 908	NA	1080	2340
## 909	NA	1080	2412
## 910	NA	1080	2412
## 911	1024	1080	2400
## 912	1024	720	1560

## 913	512	2400	1080
## 914	NA	1080	2412
## 915	1024	1080	2412
## 916	1024	1080	2400
## 917	NA	1916	2160
## 918	NA	1080	2400
## 919	256	720	1612
## 920	NA	1080	2400
## 921	NA	1080	2400
## 922	1024	2400	1080
## 923	1024	1080	2408
## 924	NA	1170	2532
## 925	NA	1080	2400
## 926	256	720	1600
## 927	NA	1080	2400
## 928	NA	720	1600
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## 930	NA	1080	2400
## 931	NA	1080	2340
## 932	256	1600	720
## 933	256	1080	2412
## 934	NA	1080	2400
## 935	NA	720	1600
## 936	1024	720	1600
## 937	NA	1080	2400
## 938	NA	1080	2400
## 939	512	720	1600
## 940	512	1080	2340
## 941	512	720	1600
## 942	512	720	1600
## 943	NA	1080	2400
## 944	256	1600	720
## 945	256	720	1600
## 946	128	1520	720
## 947	256	720	1600
## 948	NA	1080	2340
## 949	256	720	1544
## 950	NA	1080	2400
## 951	1024	1440	3168
## 952	256	1176	2400
## 953	512	720	1560
## 954	256	1560	720
## 955	NA	2200	2480
## 956	512	1080	2340
## 957	512	2220	1080
## 958	NA	720	1280
## 959	512	720	1650
## 960	NA	720	1560
## 961	NA	720	1600
## 962	1024	720	1612


```
## 963      1024      1080      2340
## 964       512      1600       720
## 965       NA      1080      2400
## 966        64       720      1560
## 967       NA       720      1520
## 968       NA      1440      3200
## 969       NA      1080      2400
## 970       NA      1080      2400
## 971      1024       720      1600
## 972       NA      1080      2400
## 973       NA       854       480
## 974       NA      1440      3120
## 975       NA      1916      2160
## 976       NA      1080      2460
## 977      1024       720      1600
## 978       NA      1080      2460
## 979      1024      1080      2400
## 980      1024      1080      2400
```

8. Remove missing values in your dataset

Description: Remove rows with missing values from the dataset.

```
clean_dataset <- na.omit(dataset)
```

```
cat("8. Dataset after removing missing values:\n")
```

```
## 8. Dataset after removing missing values:
```

```
print(clean_dataset)
```

```
## # A tibble: 352 × 26
```

```
##   brand_name model    price rating has_5g has_nfc has_ir_blaster
```

```
processor_brand
```

```
##   <chr>      <chr> <dbl> <dbl> <chr> <chr> <chr>      <chr>
```

```
## 1 oneplus   OnePlu... 19989    81 True  False  False
```

```
snapdragon
```

```
## 2 samsung   Samsun... 16499    75 True  False  False    exynos
```

```
## 3 samsung   Samsun... 16999    80 True  True   False
```

```
snapdragon
```

```
## 4 realme    Realme... 18999    82 True  False  False
```

```
snapdragon
```

```
## 5 vivo      Vivo T... 16990    80 True  False  False
```

```
snapdragon
```

```
## 6 vivo      Vivo Y... 14499    72 False False  False    helio
```

```
## 7 poco      Poco X... 14999    80 True  False  True
```

```
snapdragon
```

```
## 8 xiaomi     Xiaomi... 17859    76 True  False  True
```

```
snapdragon
```

```
## 9 oneplus   OnePlu... 21995    84 True  False  False
```

```
snapdragon
```

```
## 10 vivo     Vivo V... 27999    83 True  False  False    dimensionality
```

```
## # i 342 more rows
```

```
## # i 18 more variables: num_cores <dbl>, processor_speed <dbl>,
```

```
## # battery_capacity <dbl>, fast_charging_available <dbl>, fast_charging
<dbl>,
## # ram_capacity <dbl>, internal_memory <dbl>, screen_size <dbl>,
## # refresh_rate <dbl>, num_rear_cameras <dbl>, num_front_cameras <dbl>,
## # os <chr>, primary_camera_rear <dbl>, primary_camera_front <dbl>,
## # extended_memory_available <dbl>, extended_upto <dbl>, ...

# 9. Identify and remove duplicated data in your dataset
# Description: Remove duplicate rows from the dataset.
no_duplicates_dataset <- clean_dataset %>% distinct()
cat("9. Dataset after removing duplicates:\n")

## 9. Dataset after removing duplicates:

print(no_duplicates_dataset)

## # A tibble: 352 × 26
##   brand_name model price rating has_5g has_nfc has_ir_blaster
processor_brand
##   <chr> <chr> <dbl> <dbl> <chr> <chr> <chr> <chr>
## 1 oneplus OnePlu... 19989 81 True False False
snapdragon
## 2 samsung Samsun... 16499 75 True False False exynos
## 3 samsung Samsun... 16999 80 True True False
snapdragon
## 4 realme Realme... 18999 82 True False False
snapdragon
## 5 vivo Vivo T... 16990 80 True False False
snapdragon
## 6 vivo Vivo Y... 14499 72 False False False helio
## 7 poco Poco X... 14999 80 True False True
snapdragon
## 8 xiaomi Xiaomi... 17859 76 True False True
snapdragon
## 9 oneplus OnePlu... 21995 84 True False False
snapdragon
## 10 vivo Vivo V... 27999 83 True False False dimensionality
## # i 342 more rows
## # i 18 more variables: num_cores <dbl>, processor_speed <dbl>,
## # battery_capacity <dbl>, fast_charging_available <dbl>, fast_charging
<dbl>,
## # ram_capacity <dbl>, internal_memory <dbl>, screen_size <dbl>,
## # refresh_rate <dbl>, num_rear_cameras <dbl>, num_front_cameras <dbl>,
## # os <chr>, primary_camera_rear <dbl>, primary_camera_front <dbl>,
## # extended_memory_available <dbl>, extended_upto <dbl>, ...

# 10. Reorder multiple rows in descending order
# Description: Sort the dataset in descending order based on the price
column.
sorted_dataset <- no_duplicates_dataset %>% arrange(desc(price))
cat("10. Dataset sorted in descending order by price:\n")
```

```
## 10. Dataset sorted in descending order by price:
```

```
print(sorted_dataset)
```

```
## # A tibble: 352 × 26
```

```
##   brand_name model   price rating has_5g has_nfc has_ir_blaster
##   <chr>      <chr> <dbl> <dbl> <chr> <chr> <chr>      <chr>
## 1 huawei      Huawe... 239999 81 False True True
##   snapdragon
## 2 samsung    Samsu... 83000 88 False True False exynos
## 3 samsung    Samsu... 78990 86 True True False exynos
## 4 samsung    Samsu... 74999 89 True True False exynos
## 5 samsung    Samsu... 58999 89 False True False exynos
## 6 doogee      Dooge... 45999 88 True False False dimensionality
## 7 samsung    Samsu... 42999 81 False True False exynos
## 8 samsung    Samsu... 41999 88 False True False exynos
## 9 nokia       Nokia... 41990 85 True True False
##   snapdragon
## 10 samsung    Samsu... 39999 83 False True False exynos
## # i 342 more rows
## # i 18 more variables: num_cores <dbl>, processor_speed <dbl>,
## #   battery_capacity <dbl>, fast_charging_available <dbl>, fast_charging
## #   <dbl>,
## #   ram_capacity <dbl>, internal_memory <dbl>, screen_size <dbl>,
## #   refresh_rate <dbl>, num_rear_cameras <dbl>, num_front_cameras <dbl>,
## #   os <chr>, primary_camera_rear <dbl>, primary_camera_front <dbl>,
## #   extended_memory_available <dbl>, extended_upto <dbl>, ...
```

```
# 11. Rename some of the column names in your dataset
```

```
# Description: Rename selected columns in the dataset for better readability.
```

```
renamed_dataset <- no_duplicates_dataset %>% rename(
  BrandName = brand_name,
  ModelName = model,
  Price = price
)
```

```
cat("11. Dataset with renamed columns:\n")
```

```
## 11. Dataset with renamed columns:
```

```
print(renamed_dataset)
```

```
## # A tibble: 352 × 26
```

```
##   BrandName ModelName Price rating has_5g has_nfc
##   has_ir_blaster
##   <chr>      <chr>      <dbl> <dbl> <chr> <chr> <chr>
## 1 oneplus    OnePlus Nord CE 2 Lite ... 19989 81 True False False
## 2 samsung    Samsung Galaxy A14 5G 16499 75 True False False
## 3 samsung    Samsung Galaxy F23 5G (... 16999 80 True True False
## 4 realme     Realme 10 Pro 18999 82 True False False
## 5 vivo       Vivo T1 5G (6GB RAM + 1... 16990 80 True False False
```

```
## 6 vivo      Vivo Y22      14499      72 False   False   False
## 7 poco      Poco X4 Pro 5G    14999      80 True    False   True
## 8 xiaomi     Xiaomi Redmi Note 12    17859      76 True    False   True
## 9 oneplus    OnePlus Nord CE 2 Lite ... 21995      84 True    False   False
## 10 vivo      Vivo V25 5G      27999      83 True    False   False
```

```
## # i 342 more rows
```

```
## # i 19 more variables: processor_brand <chr>, num_cores <dbl>,
## #   processor_speed <dbl>, battery_capacity <dbl>,
## #   fast_charging_available <dbl>, fast_charging <dbl>, ram_capacity
## #   <dbl>,
## #   internal_memory <dbl>, screen_size <dbl>, refresh_rate <dbl>,
## #   num_rear_cameras <dbl>, num_front_cameras <dbl>, os <chr>,
## #   primary_camera_rear <dbl>, primary_camera_front <dbl>, ...
```

12. Add new variables in your data frame by using a mathematical function (e.g., multiply an existing column by 2)

Description: Add a new variable 'DoublePrice' by multiplying the price column by 2.

```
new_var_dataset <- no_duplicates_dataset %>% mutate(DoublePrice = price * 2)
cat("12. Dataset with new variable 'DoublePrice':\n")
```

```
## 12. Dataset with new variable 'DoublePrice':
```

```
print(new_var_dataset)
```

```
## # A tibble: 352 × 27
```

```
##   brand_name model   price rating has_5g has_nfc has_ir_blaster
##   <chr>      <chr>   <dbl> <dbl> <chr>  <chr>  <chr>      <chr>
## 1 oneplus    OnePlu... 19989    81 True   False   False
##   snapdragon
## 2 samsung    Samsun... 16499    75 True   False   False   exynos
## 3 samsung    Samsun... 16999    80 True   True    False
##   snapdragon
## 4 realme     Realme... 18999    82 True   False   False
##   snapdragon
## 5 vivo       Vivo T... 16990    80 True   False   False
##   snapdragon
## 6 vivo       Vivo Y... 14499    72 False  False   False   helio
## 7 poco       Poco X... 14999    80 True   False   True
##   snapdragon
## 8 xiaomi     Xiaomi... 17859    76 True   False   True
##   snapdragon
## 9 oneplus    OnePlu... 21995    84 True   False   False
##   snapdragon
## 10 vivo      Vivo V... 27999    83 True   False   False   dimensionality
```

```
## # i 342 more rows
```

```
## # i 19 more variables: num_cores <dbl>, processor_speed <dbl>,
## #   battery_capacity <dbl>, fast_charging_available <dbl>, fast_charging
## #   <dbl>,
## #   ram_capacity <dbl>, internal_memory <dbl>, screen_size <dbl>,
```

```
## # refresh_rate <dbl>, num_rear_cameras <dbl>, num_front_cameras <dbl>,
## # os <chr>, primary_camera_rear <dbl>, primary_camera_front <dbl>,
## # extended_memory_available <dbl>, extended_upto <dbl>, ...

# 13. Create a training set using random number generator engine
# Description: Create a training set containing 70% of the data using a
random sampling method.
set.seed(123) # Ensures reproducibility of the random sample
training_set <- no_duplicates_dataset %>% sample_frac(0.7)
cat("13. Training set (70% of the data):\n")

## 13. Training set (70% of the data):

print(training_set)

## # A tibble: 246 × 26
##   brand_name model price rating has_5g has_nfc has_ir_blaster
processor_brand
##   <chr> <chr> <dbl> <dbl> <chr> <chr> <chr> <chr>
## 1 samsung Samsun... 16499 80 False False False helio
## 2 xiaomi Xiaomi... 32999 83 True False True
snapdragon
## 3 samsung Samsun... 21999 84 True True False dimensionality
## 4 realme Realme... 11399 73 False False False tiger
## 5 redmi Redmi ... 18999 81 False False True
snapdragon
## 6 samsung Samsun... 83000 88 False True False exynos
## 7 oppo Oppo R... 19999 83 False True False helio
## 8 realme Realme... 13999 77 False False False helio
## 9 realme Realme... 8720 64 False False False tiger
## 10 samsung Samsun... 35489 86 False True False exynos
## # i 236 more rows
## # i 18 more variables: num_cores <dbl>, processor_speed <dbl>,
## # battery_capacity <dbl>, fast_charging_available <dbl>, fast_charging
<dbl>,
## # ram_capacity <dbl>, internal_memory <dbl>, screen_size <dbl>,
## # refresh_rate <dbl>, num_rear_cameras <dbl>, num_front_cameras <dbl>,
## # os <chr>, primary_camera_rear <dbl>, primary_camera_front <dbl>,
## # extended_memory_available <dbl>, extended_upto <dbl>, ...

# 14. Print the summary statistics of your dataset
# Description: Print summary statistics for the dataset to understand the
distribution of values.
cat("14. Summary statistics of the dataset:\n")

## 14. Summary statistics of the dataset:

print(summary(no_duplicates_dataset))

## brand_name model price rating
## Length:352 Length:352 Min. : 6699 Min. :60.00
## Class :character Class :character 1st Qu.: 12999 1st Qu.:75.00
```

```

## Mode :character Mode :character Median : 15999 Median :79.00
## Mean : 18526 Mean :78.06
## 3rd Qu.: 19999 3rd Qu.:82.00
## Max. :239999 Max. :89.00
## has_5g has_nfc has_ir_blaster processor_brand
## Length:352 Length:352 Length:352 Length:352
## Class :character Class :character Class :character Class :character
## Mode :character Mode :character Mode :character Mode :character
##
##
##
## num_cores processor_speed battery_capacity fast_charging_available
## Min. :4.000 Min. :1.600 Min. : 3100 Min. :1
## 1st Qu.:8.000 1st Qu.:2.000 1st Qu.: 5000 1st Qu.:1
## Median :8.000 Median :2.200 Median : 5000 Median :1
## Mean :7.955 Mean :2.217 Mean : 5069 Mean :1
## 3rd Qu.:8.000 3rd Qu.:2.400 3rd Qu.: 5000 3rd Qu.:1
## Max. :8.000 Max. :3.200 Max. :22000 Max. :1
## fast_charging ram_capacity internal_memory screen_size
## Min. : 10.00 Min. : 2.000 Min. : 32.0 Min. :5.900
## 1st Qu.: 18.00 1st Qu.: 4.000 1st Qu.: 64.0 1st Qu.:6.500
## Median : 25.00 Median : 6.000 Median :128.0 Median :6.580
## Mean : 30.34 Mean : 5.926 Mean :115.1 Mean :6.560
## 3rd Qu.: 33.00 3rd Qu.: 8.000 3rd Qu.:128.0 3rd Qu.:6.662
## Max. :210.00 Max. :12.000 Max. :512.0 Max. :6.950
## refresh_rate num_rear_cameras num_front_cameras os
## Min. : 60.0 Min. :1.000 Min. :1.000 Length:352
## 1st Qu.: 60.0 1st Qu.:3.000 1st Qu.:1.000 Class :character
## Median : 90.0 Median :3.000 Median :1.000 Mode :character
## Mean : 88.4 Mean :3.017 Mean :1.011
## 3rd Qu.:120.0 3rd Qu.:3.000 3rd Qu.:1.000
## Max. :144.0 Max. :4.000 Max. :2.000
## primary_camera_rear primary_camera_front extended_memory_available
## Min. : 8.00 Min. : 5.00 Min. :1
## 1st Qu.: 48.00 1st Qu.: 8.00 1st Qu.:1
## Median : 50.00 Median :16.00 Median :1
## Mean : 55.19 Mean :14.96 Mean :1
## 3rd Qu.: 64.00 3rd Qu.:16.00 3rd Qu.:1
## Max. :200.00 Max. :60.00 Max. :1
## extended_upto resolution_width resolution_height
## Min. : 128.0 Min. : 720 Min. : 720
## 1st Qu.: 512.0 1st Qu.:1080 1st Qu.:2340
## Median :1024.0 Median :1080 Median :2400
## Mean : 797.5 Mean :1067 Mean :2213
## 3rd Qu.:1024.0 3rd Qu.:1080 3rd Qu.:2408
## Max. :2048.0 Max. :2408 Max. :3200

```

15. Perform the following statistical functions using any numerical variable

Description: Calculate mean, median, mode, and range for the 'price'

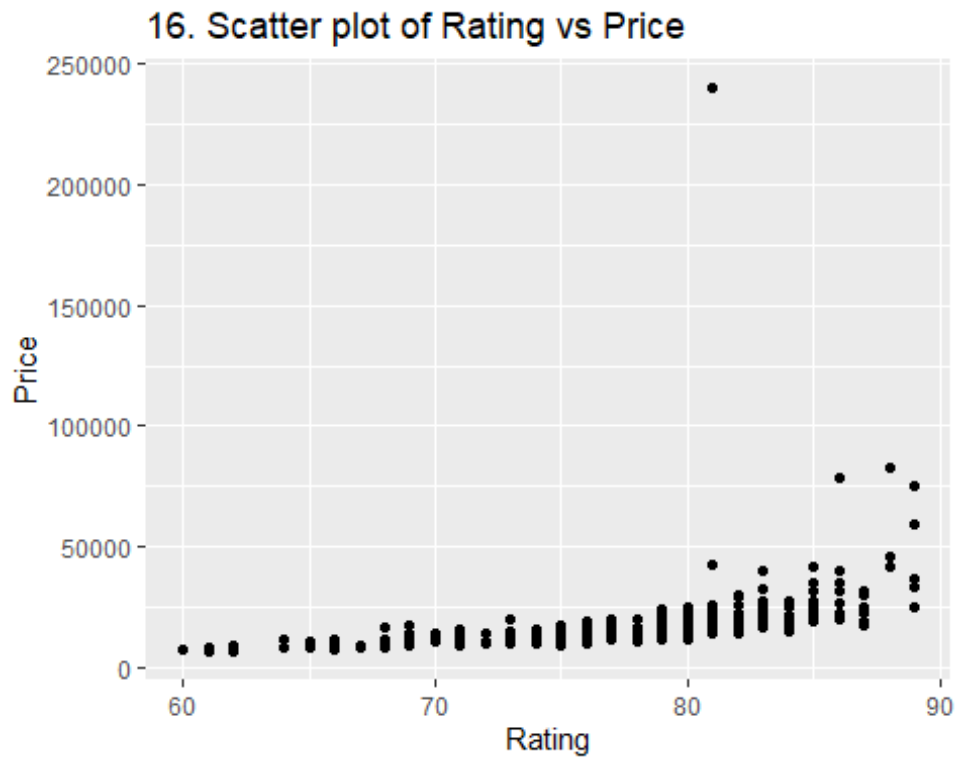
```

variable.
mean_price <- mean(no_duplicates_dataset$price)
median_price <- median(no_duplicates_dataset$price)
mode_price <- as.numeric(names(sort(table(no_duplicates_dataset$price),
decreasing=TRUE)[1]))
range_price <- range(no_duplicates_dataset$price)

cat("15. Statistical functions:\n")
## 15. Statistical functions:
cat("Mean Price:", mean_price, "\n")
## Mean Price: 18525.6
cat("Median Price:", median_price, "\n")
## Median Price: 15999
cat("Mode Price:", mode_price, "\n")
## Mode Price: 15999
cat("Range of Price:", range_price, "\n")
## Range of Price: 6699 239999

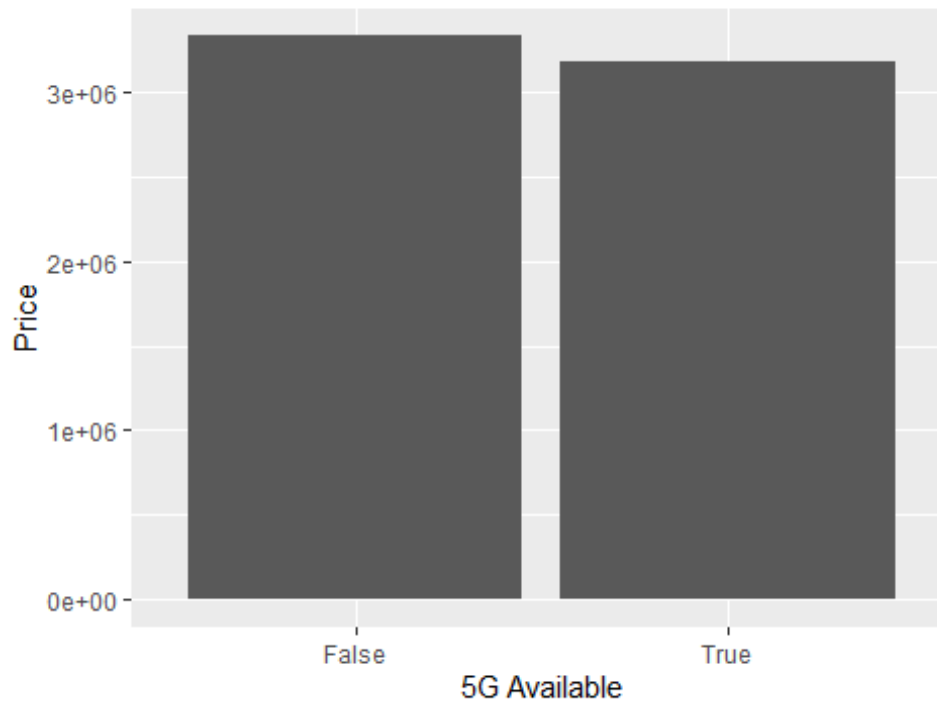
# 16. Plot a scatter plot for any 2 variables in your dataset
# Description: Create a scatter plot of 'rating' vs 'price'.
ggplot(no_duplicates_dataset, aes(x = rating, y = price)) +
  geom_point() +
  labs(title = "16. Scatter plot of Rating vs Price", x = "Rating", y =
"Price")

```



```
# 17. Plot a bar plot for any 2 variables in your dataset
# Description: Create a bar plot of 'has_5g' vs 'price'.
ggplot(no_duplicates_dataset, aes(x = factor(has_5g), y = price)) +
  geom_bar(stat = "identity") +
  labs(title = "17. Bar plot of 5G vs Price", x = "5G Available", y =
"Price")
```


17. Bar plot of 5G vs Price



```
# 18. Find the correlation between any 2 variables by applying Pearson correlation
# Description: Calculate the Pearson correlation between 'rating' and 'price'.
correlation <- cor(no_duplicates_dataset$rating, no_duplicates_dataset$price,
method = "pearson")
cat("18. Pearson Correlation between Rating and Price:", correlation, "\n")
## 18. Pearson Correlation between Rating and Price: 0.4107629
```