

missing_data_type

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The NA Type in R
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1 1. NA Type

- Used to represent missing data
- Frequently occurs in “real” data sets

```
In [1]: a <- NA           # `NA` is the missing data literal
```

```
In [2]: a + 4           # NA values propagate
```

```
<NA>
```

```
In [3]: (42 + a)/2      # returns NA
```

```
<NA>
```

1.1 1.1 Checking for NA

- Not necessarily obvious

```
In [4]: print(a)        # recall `a` is NA
```

```
[1] NA
```

```
In [7]: a == NA         # equality check fails because of propagation
```

```
<NA>
```

```
In [8]: NA == NA       # TRUE
```

```
<NA>
```

1.1.1 1.1.1 Correctly Checking for NA Values

```
In [9]: is.na(a)           # the `is.na()` function lets us check for missingness
TRUE

In [10]: is.na(NA)        # yep
TRUE

In [13]: is.na(42)        # nope
FALSE
```

1.2 1.2 Containers with NA Values

- Propagated NAs can lead to surprising behavior

```
In [15]: v <- c(3, 2, NA, 5)           # create vector with NA

In [16]: mean(v)                       # recall the NA propagates
<NA>

In [18]: mean(v, na.rm = TRUE)         # `na.rm = TRUE` removes NAs
3.333333333333333
```

1.2.1 1.2.1 Finding NAs in vector

```
In [20]: w <- c(4, 5, 33, NA, 7)

is.na(w)

1. FALSE 2. FALSE 3. FALSE 4. TRUE 5. FALSE
```

2 2. Applied Example

- We are given a large vector with many missing values
- We want to replace the missing values with the mean of the non-missings

```
In [21]: n <- 10000           # make up our sample size

x <- rnorm(n)                 # simulate 10k draws from normal dist'n

n_miss <- 100                 # number of missing values to generate

x[sample(1:n, n_miss)] <- NA  # set `n_miss` values to be NA
```

2.1 2.1 Finding NA Values

- We can use `is.na()` to find our missing values

In [24]: `print(x)`

```
[1] -0.9567970841  0.5790187232  0.7770726178 -1.1768428857  0.9706907395
[6] -1.6325974820 -2.5564692389 -0.6132367722  1.2200571644 -0.8608689466
[11]  0.7242786026  0.2786743861 -0.1195953412  0.0976578918  0.3351682084
[16] -0.0813928466  1.9986532931 -1.8018300727 -1.1543910947  0.7234624562
[21] -0.1685455494  0.0952096687  0.3769857343 -0.2327431911  0.5051146168
[26]           NA  0.6234677604 -0.9710526960  0.9338689702 -0.1214318103
[31] -1.0313001207 -1.1698370196 -1.1023318733 -0.2514128798 -0.7392868648
[36]  0.8441845154  0.3447464168  1.4797166939  0.5372408897  0.6583285071
[41] -0.1653023163  2.0905956325  1.5096391170  0.0453731416  0.7660911021
[46]  0.1118427629  0.1595289056  1.2602812350 -0.2909843458  0.1416162166
[51] -1.2184524213  2.2678021280  1.2985946216  0.2876972414  1.3619375964
[56] -0.5253505944 -0.1673978592  0.0162475822 -0.4259452061  0.1643240506
[61]  0.2394389410  0.3876420922 -0.8983858970  0.3461135561  0.0314846830
[66]  1.2326589444 -0.3073016073  0.2156893025 -0.6753750273  0.4679179507
[71] -1.0006680161 -0.0925369821 -0.1642632060 -1.3188934617  1.2104715923
[76]  0.1060523140  0.6708463188 -1.3191283640 -0.8032869478  0.9237597202
[81]  0.6617724718 -0.3764802854 -0.2960191955  0.9403744797 -0.1175842951
[86]  1.4269505195 -1.3697479825  0.0855432251  0.7613245460  1.7201970024
[91] -0.5389849115  1.4469682602  0.9441090300 -2.0127736192  1.2569273930
[96] -0.0844383019 -0.2920513736  0.0218736426 -0.0592747555 -0.6483449744
[101] -0.6594563013 -0.2053896842  1.4237797902  2.4352596839  1.8456597263
[106] -0.7664906771  1.6990649528  0.0677989369 -2.0790316313 -1.1166881344
[111]  0.5391734992  0.0055429012  0.3618468917  0.1014576313 -1.2601648340
[116] -1.1833713004 -1.3980419806  0.8263608781  0.4107585142 -0.4294070856
[121]  0.3472057898 -0.3771992085 -0.0765163878  1.9918683951  2.8553997483
[126]  0.6279857863  0.8859555721 -0.7230073409  0.9060860727 -0.6212750357
[131] -0.3800967072  0.0625864787 -0.5336502355  0.3150594941 -0.5881891026
[136]  0.5470467813 -1.7235894633  1.0483998771 -0.3117514069 -2.9396649055
[141] -0.3307390023 -2.1844282553  0.4357974817 -2.0389474676 -1.4961053801
[146] -0.7742682684 -1.6847067020  0.6300029929 -0.9413151436 -0.0441028935
[151]  0.7648248749 -0.7004141112  1.6545975510 -0.2585274436 -1.0979065555
[156] -1.5656600791  0.2775362902 -1.1886375933 -0.5845123250 -0.4436422647
[161]  0.1141209795 -1.2807248992 -0.6611455316  0.5092278835 -0.0577577862
[166]  0.9044838190 -0.1441962747  0.7375475637 -0.0307158103  0.2506815764
[171]  0.7568386836 -0.0135257089  0.2191869738 -1.4539508092  0.4728531836
[176]  0.7382681923  0.0681782868 -0.1105412025 -0.8400459144  1.2602700971
[181]  0.3365198429 -0.1785958837  1.0367476287  0.6066408021 -0.2219735228
[186]  0.7256797787  1.4068949106  0.8344696802 -0.8886486517 -0.4268826188
[191] -1.6469481745 -0.1365240374 -0.6496170497  0.1596823220 -0.9401748681
[196] -0.0831400020 -0.9677327430  1.0291719958  0.3989284742 -0.0442961664
[201] -0.3709436054  0.6783584404  1.2603394616  0.3701712256  0.1185301104
[206]  2.3071446046 -2.4455187156 -1.2576699954 -0.4676805000 -0.0283608997
[211] -0.3065989770 -0.9352831091  0.1873108788 -1.1142478065  1.4048048373
```

[216]	-1.2773426364	0.6870477521	0.5886701920	-0.1721971288	1.2026419660
[221]	0.1420407443	0.5387876517	1.4118727069	-0.5383373774	-0.9227764165
[226]	-0.0828877616	-0.3349668788	1.2946585851	-1.5560351062	-0.8903117958
[231]	1.5120860781	0.7758234828	-0.0193401847	-0.9655765592	0.5512948070
[236]	-0.0118994827	-0.0718447532	-1.3189984528	0.0087846787	-0.8249375340
[241]	0.4123633252	-0.9645560694	0.0158589251	1.3122444162	NA
[246]	-0.0232129668	0.4817210184	1.0656951036	2.0406047763	-2.2463821622
[251]	-1.3316615643	0.6280923153	0.4241651262	-1.5651796885	-0.9318593476
[256]	0.5084563994	-0.3222281287	-0.8498705002	-0.3272355875	1.9066100193
[261]	-0.1801066232	0.4385325447	NA	1.2650729315	0.2659760409
[266]	1.1947585267	0.8804059445	-0.9471393652	0.1892530788	-1.5269806381
[271]	-0.6935863487	-0.6628811128	0.0001683154	-2.0290590521	-1.5126484485
[276]	2.0060697449	-1.6450578975	0.0644916324	-1.3487804557	0.0670050194
[281]	1.8400959909	1.2586120808	2.0989496597	-1.3711359141	-1.4362307962
[286]	1.0710612973	0.8734638544	-1.4432004785	0.9454229931	-0.0824533362
[291]	-0.2131324875	0.5615661309	-0.9591154797	-0.1327418235	-0.0910270808
[296]	1.6819300681	1.2400753755	0.0100462259	0.4253890354	-1.5396784184
[301]	1.6519180224	0.7295054793	0.5389440318	-0.8473184981	-0.0356348932
[306]	-0.4118764332	0.1398578868	0.5208942295	-1.5122975310	-1.1183261575
[311]	-0.9013165255	-0.4101736290	0.7604440346	-0.0322311368	0.4354839427
[316]	0.7209059413	1.0374407274	-0.0192515338	1.2801622622	0.2230469742
[321]	-1.0443346404	-1.3513515076	-0.4359117819	-1.2340461005	0.2925053724
[326]	2.1140032765	0.6402858966	0.1422767261	0.6123965787	0.8204213376
[331]	0.0874539742	0.7814250341	-0.4154291506	0.7070122755	-0.6412061162
[336]	-0.6665164472	1.5422460504	0.3880523898	1.1070529574	0.8177027283
[341]	-1.6178818352	-1.9421435921	1.9575635970	0.6847629034	0.7896386750
[346]	-0.7707197965	-0.1538776486	0.9552704939	-0.5148771816	-1.8308451641
[351]	-0.9701090435	0.4738698625	-0.3274900230	1.1600808063	1.2085085122
[356]	0.1507132203	-1.1036432938	-0.3691410150	0.6306244612	-1.8206100048
[361]	-0.5104693957	-0.2538186052	-0.5710292941	0.3937718295	-0.4321582177
[366]	0.2916293798	1.8449224712	-1.1138310326	1.0813897995	0.7413142879
[371]	0.9428837223	0.1547709740	-0.4893358640	0.7386592238	0.2391151848
[376]	-0.4296894957	-1.6020408509	-0.5158656132	0.8445501750	2.3966224161
[381]	0.3546665766	1.4165528295	1.2734145157	0.0021085625	0.2712009792
[386]	-0.7268773202	-2.0739471236	-0.0028366632	-0.9781378072	-0.3116323418
[391]	-0.1381116484	0.3401757130	-1.4930340236	0.5309739248	0.6091796724
[396]	-0.4731890293	-0.3002746171	0.2416073138	-0.7336148831	-0.0386125182
[401]	1.5066006856	1.1210260051	-0.3955257740	-1.5785300874	-0.5149953585
[406]	-0.8763510968	-0.0751874383	0.6153452401	-0.3202468918	-0.8461755601
[411]	0.1497653076	-0.6397071552	1.2699596582	-0.0813290750	-0.0556707044
[416]	3.1374985970	1.4505586299	-0.5276228863	0.4393790257	-0.3132812302
[421]	0.8072864459	0.4665928087	0.8683025652	0.0220596424	-1.6728692097
[426]	0.8597208813	-0.2512282952	1.0123896118	0.3230684724	0.3068533754
[431]	-0.3707886580	0.0204602132	0.9672432906	0.2008306454	0.7518356837
[436]	1.8453588311	1.0826311497	-0.1634740593	-0.0042146117	-1.7022459610
[441]	0.4116438615	0.1856635812	0.7998991453	-1.3925783603	-0.0625784928
[446]	1.1380109756	0.6783886450	-0.3937796261	0.2864400342	0.7193686494
[451]	-0.0433329296	-0.7772811052	-0.1228123212	0.9205961501	-0.1602606627

[456]	-1.0819664652	0.1423989575	-1.8315962511	-1.0486738882	0.4366077898
[461]	-0.5958422603	2.0600161026	-0.4633373505	0.5506267525	0.5741402175
[466]	0.1817529612	-0.3394788045	-0.7860700745	1.1920534800	0.7253151681
[471]	-3.3319884040	-1.4669574850	-1.3226828686	1.4291499866	1.3676285250
[476]	0.7537878688	-2.0487903108	2.4930891655	0.9559236129	0.1017406111
[481]	0.7495229709	1.7176191656	0.4245151720	0.5864514373	1.0000890779
[486]	2.3690653852	0.5054263959	-0.2229831901	0.3253366612	-1.3048383451
[491]	-0.0742820161	-0.2913330281	-0.1586350129	1.4723297684	-0.1958137754
[496]	1.6466665855	-2.0870806341	0.9595754562	-0.6397065514	0.7035362208
[501]	1.3115536115	-1.0173467001	-0.8516167740	-1.1672448357	0.8366417935
[506]	-0.6616822162	-0.9485208280	0.2098955182	2.5361787829	-0.1025679153
[511]	-0.1580570940	1.2172729340	-0.8471603434	0.5460068196	-0.6001672710
[516]	-0.4979131445	0.0561395726	-1.3949680426	-0.7660289547	0.2128814711
[521]	-0.6792025144	0.8411656716	2.0716795011	-1.1816657820	-0.0022471173
[526]	1.9943385952	-0.9149622995	-0.4055835368	-1.1813124222	1.2266470399
[531]	-1.2583993835	-1.1341686812	0.5323034890	1.7139235003	-0.7340375348
[536]	-0.6805755678	-1.3921844427	1.2434227557	-0.1327465054	2.3771444637
[541]	-0.9652688091	-1.4134698089	0.1739005419	-0.9237311438	-0.6183144173
[546]	-0.9403986146	0.3844269773	-1.3501340932	-0.5960438043	0.7609996286
[551]	1.4125084942	0.9693751471	0.5233696279	-1.8287630903	-0.1426569928
[556]	0.7045493711	0.7790257804	-1.5679245523	0.5576109456	0.2880786422
[561]	1.7773328040	-1.8288616740	-0.1313642871	0.4222746509	0.8220153113
[566]	0.5771425622	0.0683386277	-2.3167441671	-0.3432316708	0.3523707430
[571]	-0.1738912992	-1.0272350667	-0.4807291156	0.2513934136	-0.7105663101
[576]	0.0226319455	-1.4712261335	0.5173696014	2.3395238722	0.4443340716
[581]	-0.4012638599	0.0568816704	1.4971348304	0.2549941655	0.7940582451
[586]	0.5235320975	-1.1913089103	-0.7769073330	-0.9604627842	-0.9275498153
[591]	-1.4194698651	-0.8508464873	-0.6016162062	0.6640917221	0.0256094374
[596]	-1.0180455957	-0.4832423714	0.2415386266	0.5879414397	0.7060075322
[601]	-0.0035727701	-1.9121065856	3.1073349940	-0.1792907949	0.3279973053
[606]	-1.0073930281	1.7187151174	0.3212941524	-0.3963514671	1.2157600091
[611]	0.5128448405	0.6326584479	-2.1267205770	0.4109264007	-0.1563230162
[616]	-0.6850790731	1.0748860060	0.0143565942	1.0457971131	-1.1424096236
[621]	0.1706410778	-0.2070158692	-0.7386752614	1.0097164536	0.5523961832
[626]	1.2424520908	0.7761291063	0.3269743371	NA	-1.0399661095
[631]	0.0157823642	0.9169628999	-0.3185918262	0.6743410412	1.1897206985
[636]	-1.9719657251	-0.3992339348	-0.5329793940	-1.1284076765	1.1716068270
[641]	0.0693810693	-0.1016756707	0.0610076999	0.6517881476	-0.4576817905
[646]	0.8416210609	-1.8096934884	1.4834703175	-0.6791309187	-0.2985147808
[651]	-0.1831621825	0.3553556850	0.4574802927	0.6374292832	1.1855320170
[656]	0.5404132277	0.6071368415	-0.0885011097	2.0245394490	1.4793124505
[661]	-0.3367314728	-0.8245626514	0.0158731109	0.5124591695	-0.0379892486
[666]	0.2998267025	0.5580149649	0.6297927022	-0.4023595500	-1.4669187032
[671]	-0.8617820186	0.2538487431	-0.3291221286	2.1439617319	-1.0929186659
[676]	-0.4106640086	-0.2766581137	-1.0228991484	-1.0172837969	0.5084305288
[681]	0.7392081992	-0.3242836043	-0.4265855968	-1.1500977238	-0.8695866649
[686]	-0.1515267772	0.5657272730	-0.6770958527	-2.1453029695	0.1697212902
[691]	-0.3721588362	1.5181603388	0.5536763005	0.7418608001	0.2946146036

[696]	-1.1641179867	1.3638566315	1.8971866252	0.5951287109	-0.1415512188
[701]	-0.6608176312	0.3668049059	-2.7487036601	-0.6295407635	-0.0609825028
[706]	1.8109433290	1.1505031985	-0.0187803091	0.0378488679	-1.0028728561
[711]	0.4210156127	0.5648194219	0.7803628828	0.0282245723	0.0552260089
[716]	1.1101118660	-0.6379659715	-1.3099354258	-0.9104542083	0.7711042422
[721]	-0.8851258664	0.9534370170	1.3148263485	2.1819925879	0.1271918737
[726]	0.4855519651	-0.2962515401	-1.2001635668	0.0349427478	-0.5663684251
[731]	-0.0123820653	0.0122592742	-1.0420492604	-0.0433344943	0.7030402456
[736]	-1.6123420456	-0.6438396418	1.8944332331	-0.2339270022	0.1483269756
[741]	-0.6658586214	-0.6984302658	0.0067976611	-0.8947507391	0.2451220111
[746]	0.6585365305	-2.0224907020	-1.3866097383	0.8871098447	-0.4989989179
[751]	0.8245169754	-0.3929163073	0.8042212306	0.7332761515	1.3716567741
[756]	-0.2303581598	-0.0389248479	0.7550097577	0.8845797460	1.5429157605
[761]	0.5638495052	-0.8282781438	0.3522149389	0.4349659396	0.8796945814
[766]	-0.1337222973	0.0142980552	-0.4159578013	0.2240338219	-0.4690345088
[771]	-0.6111611145	-0.1281827308	0.5860035021	-0.1220381990	0.1708052745
[776]	-1.2559328732	-0.6745731240	-0.9490183805	-0.2168970344	0.1327129139
[781]	0.9932013658	-0.7431720533	1.2144870348	-1.2223388108	0.1740592046
[786]	-0.6981981027	0.4012420608	-0.8249480999	0.3704438974	-0.0515711719
[791]	0.2828054669	1.5884946708	1.8017644344	0.6324905402	-2.3252357299
[796]	0.1672956632	1.3102306164	0.1815914280	1.0910888177	-0.1084812018
[801]	0.2246386269	-0.7223923860	-0.5795382590	-0.6451341885	-0.5482803775
[806]	-1.5704906959	-2.2300832046	-0.1023436901	-0.4057882490	-0.5278459709
[811]	0.3491029740	-0.3464577255	-0.0340906524	-0.3296522674	0.5535747405
[816]	2.2349620108	-0.4494178478	0.9230118874	-0.3234532092	2.0945533712
[821]	-0.4822232146	NA	-0.3752396310	-1.2379493675	0.8056387844
[826]	0.0370735100	1.2634885588	-1.8024202649	-1.6656158783	0.8693320880
[831]	0.5415189623	1.5097090721	0.8338654405	0.7018644992	1.6399805831
[836]	0.1467376369	NA	0.4416428322	-0.0143017933	-0.0470910032
[841]	-1.1162641154	-0.1099329094	-0.8506951072	-0.1950709002	-1.4645741120
[846]	2.1142339448	-1.3872409363	0.0282524953	1.5127027670	1.6698992809
[851]	1.7072550789	1.1872645793	-1.2222576021	1.8362406012	-0.2786750289
[856]	0.4580205259	1.2870448201	-0.2724651588	-1.4785315557	-1.5620850599
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[946]	-2.0637082767	-0.0349306994	0.4717007648	-0.0145159772	0.8211954417
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[966]	1.1233435035	-1.2334794712	0.1144477258	0.3558359456	-1.3317955525
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[1771]	0.5350986376	-0.7300685083	0.6218523900	-1.6256074008	0.2174290115
[1776]	-1.8848548687	0.2311630776	-0.5570795526	-0.4276374646	-0.5292384849
[1781]	-0.3271038865	0.0762840265	-1.0219564949	0.2955184636	0.9507975111
[1786]	-1.0118100748	0.1214818061	-0.2578948435	-1.8680867733	0.2720330826
[1791]	-0.9078612627	-1.2121797463	-1.4434707132	-0.0528973168	0.9837084702
[1796]	-0.2388916274	-0.9131451859	-0.5599031434	0.4045015628	-0.0729600442
[1801]	-1.4932094747	1.8201540133	0.5043408208	-0.0115557968	0.8273519631
[1806]	-0.7996262799	0.7720091101	0.7657497854	1.6165435343	-0.6906670902
[1811]	0.0455851178	0.9329890023	1.2398561152	1.2280229029	-1.5988112371
[1816]	1.4166257312	-3.3340399395	-0.2171030607	0.6424017342	-1.0313175285
[1821]	-0.0082331365	0.8886112706	0.1467426585	-0.8565890946	0.8294290058
[1826]	-0.3231130040	-0.3982644217	-1.5673787762	-0.5790708887	0.4516778931
[1831]	-0.3524529572	-1.1382681432	-0.9145737477	0.6598765105	-0.4189413915
[1836]	-1.1698106686	-0.3604363912	1.0053379562	0.7824950430	-0.9626219843
[1841]	0.1608970496	-1.0222513256	0.7610487911	0.4043509524	0.5233858380
[1846]	0.2228349659	-0.4411420574	0.0978316174	-0.5105033374	-0.3004576936
[1851]	1.8379475647	-0.1528955795	-1.4875276248	-0.8475467829	0.3005583029
[1856]	1.3793683588	-0.4593130477	-1.6382501275	0.0547707737	-0.2633920078
[1861]	0.2758253262	1.2004673361	0.4976408843	1.1888178574	-0.4452419483
[1866]	-0.0285134311	0.0788065484	-1.4311746088	-0.1134506853	1.3166800055
[1871]	2.8885734879	2.2452624476	0.3857647269	0.5893178171	-2.3106428861
[1876]	2.3615131822	-0.1792610419	0.3826977662	1.8749991523	0.3246991096
[1881]	-0.7845103387	1.3641110635	-0.0548726539	-0.7523007868	-0.8558163800
[1886]	-0.8216578431	0.2685861138	-2.8100716982	0.3061718397	-1.0101461590
[1891]	-0.2277621468	-0.7448473766	1.9974976530	0.0853082759	-0.7257936140

[1896]	-0.6158062000	-1.1212278292	-0.5366541177	0.0813144279	-2.7909929050
[1901]	0.7213056402	2.2637628014	-0.1533773654	-0.0579143938	-1.1415975610
[1906]	0.3628003077	-0.2776871995	0.2683215081	-0.9046243544	-1.1631903193
[1911]	0.5364999217	NA	-1.4577850207	0.8288262057	0.4865383909
[1916]	-2.1877926118	0.4805416555	0.5192949744	0.6436906619	-0.2144808213
[1921]	-1.0673893753	0.2963517693	0.3124581372	0.2069806804	-0.2024283286
[1926]	-0.6758707738	0.3943195377	0.2254994648	1.9574432901	0.7489418700
[1931]	0.0474398729	1.1815848528	1.5926634390	-0.4730538481	0.0450469669
[1936]	-0.3920580003	1.7950055847	-0.2902321577	0.2423273768	-1.4490543427
[1941]	0.0316064153	-0.7366079844	0.1162021536	1.2507074945	-0.1092388460
[1946]	0.7850999305	0.8425822507	1.7448770135	-0.4939116090	-0.7444292102
[1951]	0.0743792535	-0.8855887672	-0.7709089960	0.7472573075	-1.1108802387
[1956]	0.4778835374	0.6841658300	1.3479632656	-0.0679256808	-1.4841367651
[1961]	-0.1030418194	-0.8644977170	-1.1014592655	-1.6867340453	-0.1936960450
[1966]	0.9579971688	1.5026772097	-0.1432058238	1.6555530583	0.0560218407
[1971]	-0.3361633965	0.7255911520	-1.1360324980	0.7277194904	1.3471137429
[1976]	-0.0083991371	0.2137235133	0.4548731692	0.7231617840	0.6466753984
[1981]	-0.6659597857	1.1285148812	-0.8576651180	1.9102677818	-1.6725252092
[1986]	-0.0118695377	-0.3712333479	1.0100980806	-0.9587785246	0.0005509825
[1991]	1.6625572168	2.4451241667	-0.8699593567	0.1585910553	2.4221956773
[1996]	0.0471592787	-0.4946442836	-0.2991903890	0.8340922925	-0.0232686682
[2001]	-1.2025615266	-0.5572682478	0.6155305218	0.3257022003	-0.2768688631
[2006]	1.6663497067	-0.2900431464	-1.4365560162	0.4244894122	-1.1759967972
[2011]	-0.3499485501	-0.2627481828	-0.1548505460	-0.4110227489	1.1899521242
[2016]	0.3292661092	0.2463687973	0.8030691033	-0.1139859956	-0.2797298080
[2021]	0.0138644954	0.5223782669	0.7384967533	0.0590388240	-1.3967659142
[2026]	0.6076460331	0.1583773109	-1.0598934877	0.4927973025	1.7700791888
[2031]	1.4098916404	-1.7614524368	0.0615471695	1.3872136428	-0.6516111973
[2036]	-0.6450101155	-0.4861866007	-2.3112523188	1.5338165400	0.0415603915
[2041]	-0.7922139842	0.2984973844	-0.5618266363	-0.6282461540	0.3772256574
[2046]	0.3182326748	-0.8723385323	1.0203086411	-0.7225086225	-1.2969017254
[2051]	-0.9318816911	0.3656009189	1.2660151776	-1.0537228324	-0.9594660684
[2056]	-0.6286529103	0.1860793691	-1.1620667370	-1.7470110931	0.4417369449
[2061]	-0.2497356761	-0.2669836644	-2.7725128090	1.1622843143	1.4424520585
[2066]	1.4074278214	0.2475491868	1.1717190266	NA	-1.5056852997
[2071]	0.6673734639	-0.4447842143	1.3614436816	-2.4303095077	-0.5470636633
[2076]	-0.2511447829	0.9922429548	-1.4821503978	-1.1098021926	1.3165423874
[2081]	0.2872198541	-0.5075434909	-0.1957384893	1.0784297721	0.7620734735
[2086]	-0.3863506300	1.0502711808	-0.0594657911	-1.3712545561	0.2998812884
[2091]	-0.4840098733	0.2408059711	0.6155515950	-1.2681147694	-0.7447441165
[2096]	-0.7859260156	-1.0331268840	0.6955570751	-0.6996840137	-0.4684432361
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[2881]	-1.8693420028	-1.0884013811	-0.0222179759	-0.4585018326	-0.8959136529
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[3586]	1.5648128850	0.1880505302	-0.3717006177	0.3767464574	-0.0693705752
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[3626]	0.3021630777	-0.1980504368	-0.4464184979	-0.4024770599	-0.4976173132
[3631]	0.1176764085	0.9978830764	-0.0747761872	-0.9614719407	-2.0536672150
[3636]	0.7208517369	-1.1177391982	-0.8934919903	1.7036988832	1.2374202675
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[3646]	0.3304436422	0.5866393441	-0.1260168230	1.0962899690	-1.4138902698
[3651]	-1.7997439747	0.0227255597	1.4023963260	-0.4214443658	0.0202541581
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[3666]	1.3490200041	2.1592651666	-0.1199688246	1.0511637136	0.2162092175
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[3706]	-0.3115902853	-0.7622313762	0.9899840493	-0.7580970827	-0.6342860563
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[3726]	-1.3689577154	-0.0308100894	1.5276740184	0.5440655982	0.5995962357
[3731]	-0.7484192003	-0.6794997614	-0.4888877243	0.4073974105	0.4406366759
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[3771]	-0.1034438309	0.0945977350	0.7680052448	-0.4116822906	0.1236793074
[3776]	0.0601780286	-0.1395106566	-0.8820961124	-0.7707921203	-0.3449507666
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[3826]	-1.4231890495	-1.1489657444	0.1094769245	2.5478963180	2.2976445290
[3831]	-1.3425080440	-0.9008886794	2.3160176028	0.6277190390	-0.2739573573
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[3841]	-0.2046076885	-0.1493388747	0.4323791873	0.6611675807	0.2874217105
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[3866]	-0.2474345652	-1.5234486629	-0.3241620559	-0.9687565989	0.3241496413
[3871]	-1.0880580935	1.5990603761	-0.4387439473	0.9606008891	-0.6476169960
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[3881]	-1.0050705149	-1.0794572477	1.0466267643	0.1693691826	0.2708580685
[3886]	-0.3239324213	-0.4410790547	0.4329287474	0.1369668097	0.2289868173
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[3981]	-0.0811611369	-0.6568411196	-0.1327566393	-0.0223339100	0.0219192433
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[4586]	-1.6133944432	1.2108794768	-0.8790499879	-0.5911177911	0.0743333026
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[5386]	0.1694129943	-0.8848241448	0.7116248869	0.4837856188	-0.0323185499
[5391]	0.6525473675	-0.7256771121	-0.6664737918	0.2072108529	3.8470123170
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[5401]	-0.5236287626	-0.3316558919	0.7667688841	0.4944017617	-1.1109075235
[5406]	-2.4838958136	1.1192924668	2.0518090506	-0.1912766845	-0.5475671586
[5411]	-0.5656039536	0.4373023084	0.0494076697	1.0962548287	0.0475039038
[5416]	0.2987580832	-0.3234924260	0.9392942097	-0.5519445948	-1.2829539323
[5421]	2.6599942675	0.3196476922	-0.5559986311	-1.4227187027	-0.2969399506
[5426]	-0.0635239832	-0.1465807750	-1.6375881873	-1.1434631645	-1.0803831947
[5431]	0.8168308908	-1.5958529570	-0.1124636115	0.5828421607	2.3348576764
[5436]	0.7466223801	0.5259060059	-0.1156824082	0.0100128643	0.9910834575
[5441]	0.8181815522	1.1153609159	-0.0267757028	0.8129900881	0.5447145817
[5446]	-1.4572786171	0.8405973071	1.4741323323	0.4500338202	-0.6790953481
[5451]	-0.1677730514	0.4832554424	0.4964969536	1.1910044946	1.0514196930
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[5461]	-0.4000166957	0.1989017360	0.1054984184	1.2535179274	-1.0740464987
[5466]	-2.1145739414	-0.2720694920	-0.2079339977	0.7133317550	0.5756824266
[5471]	0.7832793893	0.5214605570	-0.5784846518	-0.6766280606	-1.9043936112
[5476]	0.8351372283	-1.3805998801	1.2167968942	-0.7806044575	0.4506440640
[5481]	0.1380307987	-0.3046444448	-1.4754229328	1.8923542658	1.1664965749
[5486]	-0.5199002456	0.6160989579	-0.7185472928	1.7184065250	-0.7333310200
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[5496]	-0.8503657056	0.4075943327	0.1924603953	0.4354760398	-1.0073257700
[5501]	-1.2475348857	-0.5032251672	0.8363733799	-0.1639952219	1.4035130792
[5506]	-1.4737378768	1.1366718490	1.9156564387	0.9567973279	0.9360633603
[5511]	-0.5844062038	0.8294990973	1.0008069142	0.1416669653	-0.8284849481
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[5531]	0.1599123399	-0.1738302764	0.6302736709	-1.7849948816	0.0681738504
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[5541]	0.1297861564	-0.0553134008	-0.8128747026	0.6512598492	0.7752502333
[5546]	-1.2955041265	0.3342786507	1.1189268261	-0.3053922425	1.4554100901
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[5556]	0.9771040304	0.9898247379	1.4350424831	0.1084641605	-0.5971726794
[5561]	-0.6110798332	0.1131786560	-0.1058324751	-0.6632504318	0.2443900617
[5566]	0.8512314314	-0.9678017298	0.9348664128	2.4969690454	-1.2600968278
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[5576]	-0.0551613632	-1.2096391420	-1.5929008180	-0.5271912814	-0.0930453262
[5581]	0.3620521703	-0.2793945112	0.3476289064	0.8590309904	0.2191724955
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[5591]	1.1848403727	-0.8518865843	-0.6347903504	1.1075207514	-0.9836393705
[5596]	-0.5647537963	-1.1609786070	1.1020567546	-1.6615343110	-0.2605105892
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[5626]	-0.6646864792	-0.1870233552	0.8325022163	0.2290003487	0.0907820497
[5631]	-0.2866153159	-0.7149662811	0.9274309934	0.9158002168	0.1220934892
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[5646]	0.5669256938	-0.9370112466	0.4358112874	-0.9988510212	0.8688893129
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[5656]	-0.3188845282	-0.2465292742	0.0689433325	-0.5377822333	-2.8035751139
[5661]	-0.3906621536	-1.1704980257	-0.0134366324	0.6405525714	-1.8290760436
[5666]	-1.1868608014	0.2565584401	0.9429838055	2.0470009282	-0.4245416020
[5671]	-0.8634243643	NA	-0.1521778000	0.5199099007	-0.1772407356
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[5686]	0.3150036811	1.7779740446	-1.2658466251	0.8785870893	1.3699293381
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[5696]	-0.7914857476	0.0662326846	-0.9472802529	0.8436831687	-0.1366898628
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[5726]	-0.9245756590	0.9995691782	-0.1453465475	0.8894936601	-1.5650779988
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[5746]	0.2110397661	0.3451113124	-2.2065758087	-0.5305185976	1.6491703151
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[6316]	0.4984592748	-1.4119048604	-1.3258515359	1.1590033588	-0.3766187070
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[6341]	0.7592232462	0.7859949561	0.8976839685	1.1140833991	-0.9935076513
[6346]	0.7587862430	-0.3256098261	-0.3305245035	0.6393514126	-0.1214698203
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[6371]	0.1362013208	0.6326012753	-1.3919108206	-0.4956383957	-0.0696348365
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[6381]	-0.2634601499	0.6788723575	NA	2.6647726528	-2.0925834305
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[6431]	0.1313179877	-0.6439622944	-0.4710162896	-2.0743986427	0.2996729048
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[6456]	1.4962476067	1.1649650976	0.0637567286	NA	0.2455528791
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[6466]	-0.8235919340	-0.9508061811	-0.6673504167	-0.5406511863	0.7262797759
[6471]	0.8642625526	1.2972743049	-0.2124136645	0.1972168289	1.0696869381
[6476]	1.2145060916	1.8234164369	0.3684746762	1.6659358588	0.1786156466
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[6496]	-1.9250162456	-1.7297208745	-0.7325225487	1.1457920574	1.4618559210
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[7196]	1.8027966316	-0.6652647773	-0.1347662240	-1.3401055861	-0.2076562295
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[7226]	-0.6775614141	-0.5695171684	-0.2173117263	0.3388763888	0.0948315033
[7231]	-1.7721007823	-0.9470851012	NA	0.7532591016	-1.0580611059
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[7246]	0.8456580659	-1.2097655123	-0.1626998502	-0.5344394704	0.2828241528
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[7266]	0.4039894033	0.9640665394	-0.0819657211	-1.3857832791	-1.2815144058
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[7281]	0.2074332109	1.0699736060	-0.5959268436	1.2804759466	-1.4116772990
[7286]	-0.0849703843	-1.2723110120	0.1927234024	-0.6602519667	0.3736791283
[7291]	-0.5182032341	-1.5615585208	0.2360438806	1.3649885074	0.8522107361
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[7306]	-1.1579316270	0.3218321246	-1.4781471496	-0.2289098462	0.8817061402
[7311]	0.5406986507	1.0940899713	0.3633559975	-0.1240052482	-0.0492826906
[7316]	0.0059177882	-0.1317158191	-0.6046909625	0.5905830079	0.5544679982
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[7326]	-0.1895494475	-0.2219490875	0.8694615064	-0.1215351531	0.9189517959
[7331]	0.1463438675	0.5979600519	1.0184328297	1.0143304019	-1.2469563719
[7336]	0.3341282947	1.4605257685	1.6178408473	-1.2245499214	0.5685294915
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[7346]	1.1952257249	1.0044982646	-0.1324912599	-0.2311792210	-0.1881761312
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[7356]	-0.4814602365	0.0809486152	1.2044756501	NA	-0.4889748367
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[7366]	-0.4846208988	0.6835318525	-2.3526854500	-0.0083339143	-0.1310881143
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[7396]	-1.2593872704	1.0856635037	1.0554544387	-0.8822779327	0.0353503340
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[9916]  0.4679874673 -0.2862199037  0.2041356654 -0.6620064085      NA
[9921]  3.1810050481 -0.2251177247 -0.7813803874 -0.0831227965 -2.1695422755
[9926] -0.4242365645  0.9792353217 -0.1518966323  1.2151238741 -0.0386791910
[9931]  0.3792851695 -0.2829750164 -1.2079298230 -0.1382177117  0.9594907547
[9936]  0.0674882678 -0.1642016460 -0.3296467440 -1.9099913912  0.1929119860
[9941]  2.8592174334  0.8881220025  0.9529248869 -0.5278946278 -1.2427783652
[9946] -2.2589568633 -1.1997479256  1.9324615196 -0.6277689139 -0.4680885978
[9951] -1.6170290830  0.2500937337 -0.2425357369 -0.7126735482  0.1700275186
[9956]  0.7561669296  0.0264963335  0.8034032700 -1.3068314131  1.6753677881
[9961]  0.9947894286  0.5594688576  0.8566714056  1.5936575456  1.8796935405
[9966] -2.0119200004  1.0433614093 -0.7689718450 -0.1433891429  1.2836483716
[9971] -0.1425732883 -1.2201598944  0.6951907379 -0.7879045945  0.6682249581
[9976]  1.4572597466  1.2511765200 -0.8593995843 -0.0014825648 -1.1955412549
[9981] -1.3535835150 -1.9321115904  0.5857001865  0.5506607057 -0.1865511552
[9986]  1.1644116640 -0.4868260897  0.9816373656 -2.1707901132  0.3908998665
[9991]  0.9330817292 -2.9290271669 -0.0405240297  0.7967940620  1.7321595339
[9996] -0.4785140085  0.4675084872 -0.2980299834 -0.1454882054 -1.2070721762

```

2.1.1 2.1.1 Replace NAs with Mean

```
In [25]: idx_miss <- which(is.na(x))      # get indices of missing values
```

```
print(idx_miss)
```

```

[1]  26  245  263  629  822  837  866  887  892  939 1013 1148 1207 1474 1698
[16] 1741 1754 1912 2069 2160 2188 2248 2268 2382 2600 2614 2620 2812 2886 3002
[31] 3008 3086 3102 3107 3170 3232 3824 3894 3975 3992 4286 4399 4651 4656 4669

```

```
[46] 4834 4951 5139 5172 5210 5672 5739 5862 5948 6071 6080 6123 6161 6240 6383
[61] 6402 6410 6422 6436 6438 6459 6533 6551 6884 6929 7086 7120 7233 7296 7359
[76] 7543 7641 7647 7694 7758 7830 7839 7993 8294 8366 8397 8465 8519 8540 8626
[91] 8702 8971 8984 9008 9111 9259 9588 9806 9817 9920
```

```
In [26]: mean_obs <- mean(x, na.rm = TRUE)    # get mean of observed values

In [27]: x[idx_miss] <- mean_obs              # replace NAs with `mean_obs`

In [28]: mean_obs == mean(x)                  # confirm that mean of `x` is same as `mean_obs`

TRUE

In [29]: any(is.na(x))                        # confirm there are no longer NA values in `x`

FALSE
```