

社統作業

姓名：王思勻

學號：105204027

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一、

1.

```
> prod(1:170)
[1] 7.257416e+306
```

2.

```
> a<-seq(from=2,to=1000,by=2)
> prod(a)
[1] Inf
```

3.

```
> z<-seq(from=3,to=8886,by=3)
> sum(z)
[1] 13164609
```

4.

```
> seq(from=5,to=1990,by=5)
[1] 5 10 15 20 25 30 35 40 45 50
[11] 55 60 65 70 75 80 85 90 95 100
[21] 105 110 115 120 125 130 135 140 145 150
[31] 155 160 165 170 175 180 185 190 195 200
[41] 205 210 215 220 225 230 235 240 245 250
[51] 255 260 265 270 275 280 285 290 295 300
[61] 305 310 315 320 325 330 335 340 345 350
[71] 355 360 365 370 375 380 385 390 395 400
[81] 405 410 415 420 425 430 435 440 445 450
[91] 455 460 465 470 475 480 485 490 495 500
[101] 505 510 515 520 525 530 535 540 545 550
[111] 555 560 565 570 575 580 585 590 595 600
[121] 605 610 615 620 625 630 635 640 645 650
[131] 655 660 665 670 675 680 685 690 695 700
[141] 705 710 715 720 725 730 735 740 745 750
[151] 755 760 765 770 775 780 785 790 795 800
[161] 805 810 815 820 825 830 835 840 845 850
[171] 855 860 865 870 875 880 885 890 895 900
[181] 905 910 915 920 925 930 935 940 945 950
[191] 955 960 965 970 975 980 985 990 995 1000
[201] 1005 1010 1015 1020 1025 1030 1035 1040 1045 1050
[211] 1055 1060 1065 1070 1075 1080 1085 1090 1095 1100
[221] 1105 1110 1115 1120 1125 1130 1135 1140 1145 1150
[231] 1155 1160 1165 1170 1175 1180 1185 1190 1195 1200
[241] 1205 1210 1215 1220 1225 1230 1235 1240 1245 1250
[251] 1255 1260 1265 1270 1275 1280 1285 1290 1295 1300
[261] 1305 1310 1315 1320 1325 1330 1335 1340 1345 1350
[271] 1355 1360 1365 1370 1375 1380 1385 1390 1395 1400
[281] 1405 1410 1415 1420 1425 1430 1435 1440 1445 1450
[291] 1455 1460 1465 1470 1475 1480 1485 1490 1495 1500
[301] 1505 1510 1515 1520 1525 1530 1535 1540 1545 1550
[311] 1555 1560 1565 1570 1575 1580 1585 1590 1595 1600
[321] 1605 1610 1615 1620 1625 1630 1635 1640 1645 1650
[331] 1655 1660 1665 1670 1675 1680 1685 1690 1695 1700
[341] 1705 1710 1715 1720 1725 1730 1735 1740 1745 1750
[351] 1755 1760 1765 1770 1775 1780 1785 1790 1795 1800
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[361] 1805 1810 1815 1820 1825 1830 1835 1840 1845 1850
[371] 1855 1860 1865 1870 1875 1880 1885 1890 1895 1900
[381] 1905 1910 1915 1920 1925 1930 1935 1940 1945 1950
[391] 1955 1960 1965 1970 1975 1980 1985 1990
> y<-seq(from=5,to=1990,by=5)
> mean(y)
[1] 997.5
> sd(y)
[1] 575.1848

```

```

5.
>x<-c(27,18,36,77,102)
> mean(x)
[1] 52

```

二、課本(Ch1)：

1.4

- a. nominal
- b. interval-ratio
- c. interval-ratio
- d. nominal
- e. ordinal
- f. interval-ratio
- g. nominal
- h. ordinal
- i. nominal
- j. interval-ratio

1.5

- a. nominal
- b. ordinal
- c. ordinal
- d. interval-ratio
- e. interval-ratio
- f. interval-ratio
- g. nominal
- h. interval-ratio
- i. ordinal
- j. interval-ratio/ordinal

1.6

a	infant mortality rates quality of life percentage of all adults who are permitted to vote democratization	interval-ratio ordinal interval-ratio ordinal	independent dependent independent dependent
b	speed limit result in accidents traffic volume number of accidents number of fatalities	interval-ratio ordinal interval-ratio interval-ratio interval-ratio	independent dependent independent independent independent
c	effectiveness of the program knowledge of safe sex practices before the program knowledge of safe sex practices after the program	ordinal nominal nominal	dependent independent independent

d	the frequency of sexual harassment age major	ordinal interval-ratio nominal	dependent independent independent
e	assess two different methods of trash collection the number of complaints received from the two different areas the amount of time per day required to service each area the cost per ton of trash collected	ordinal interval-ratio interval-ratio interval-ratio	dependent independent independent independent
f	tolerance for diversity race ethnicity	ordinal nominal nominal	dependent independent independent
g	budgets for mental health care the size of the homeless population before and after the cuts	interval-ratio interval-ratio	independent dependent
h	whether he or she supports the store's closing how many times each has visited the store he or she agrees that "pornography causes sexual assaults on women" gender political philosophy major	ordinal interval-ratio ordinal nominal nominal nominal	dependent dependent dependent independent independent independent

1.9

a	racial preferences in dating among college students rank racial-ethnic categories	ordinal ordinal	dependent independent
b	the number of romantic relationships the number of times they have had sexual intercourse high school grade-point average	interval-ratio interval-ratio interval-ratio	dependent dependent independent
c	percentage of minority voters voting turnout percentage of minority elected officials	interval-ratio interval-ratio interval-ratio	independent dependent independent
d	per capita income percentage of children enrolled in school school enrollment of boys school enrollment of girls	interval-ratio interval-ratio interval-ratio interval-ratio	independent dependent dependent dependent
e	the level of support for gun control number of years of schooling gender region political party preference	ordinal interval-ratio nominal nominal nominal	dependent independent independent independent independent