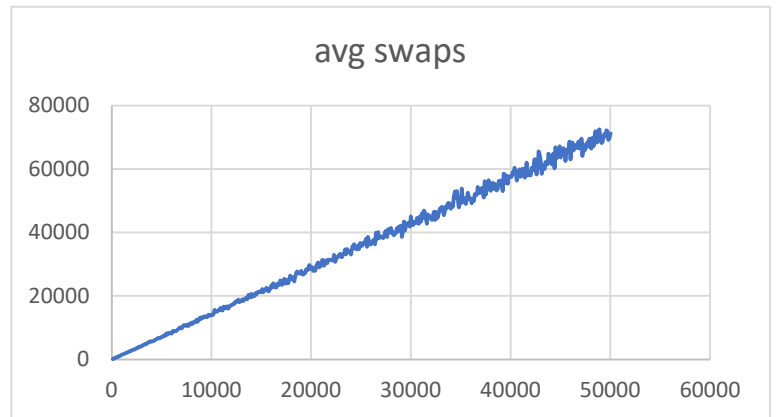
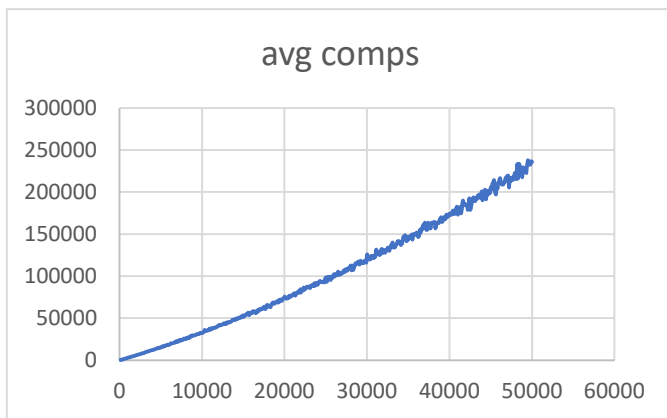
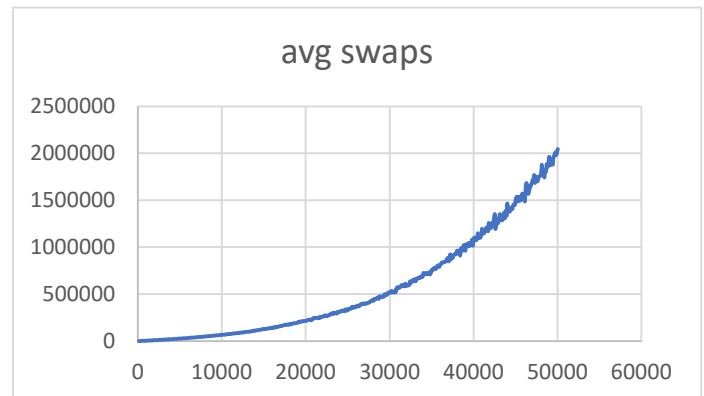
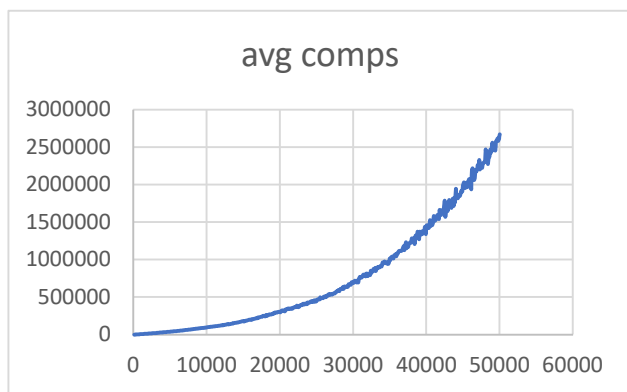


## Zadanie 2

Randomized select:



Select:

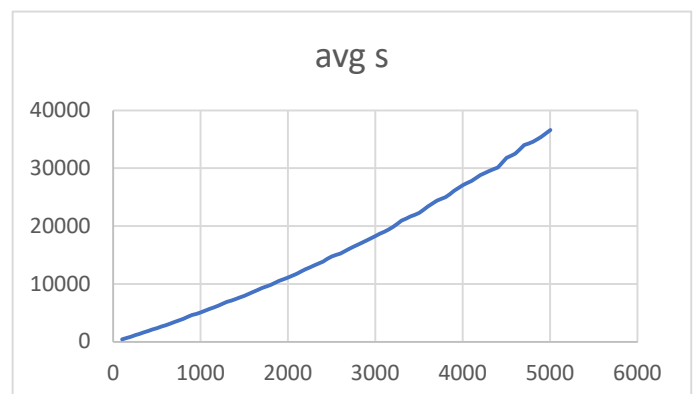
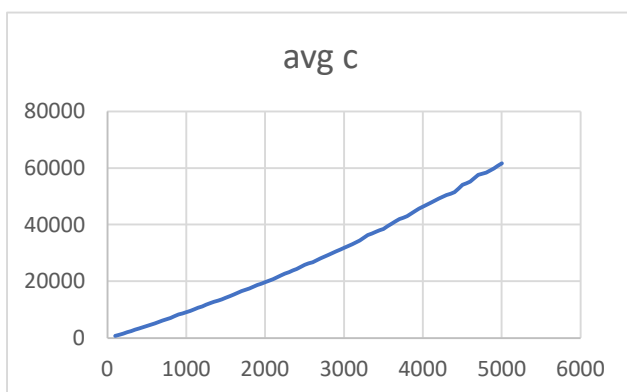


Testy wykonane były dla  $k$  równych  $1/5n$ ,  $2/5n$ ,  $3/5n$ ,  $4/5n$   $n$ .

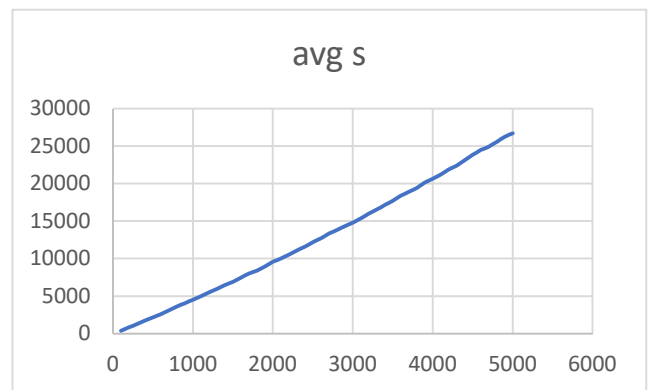
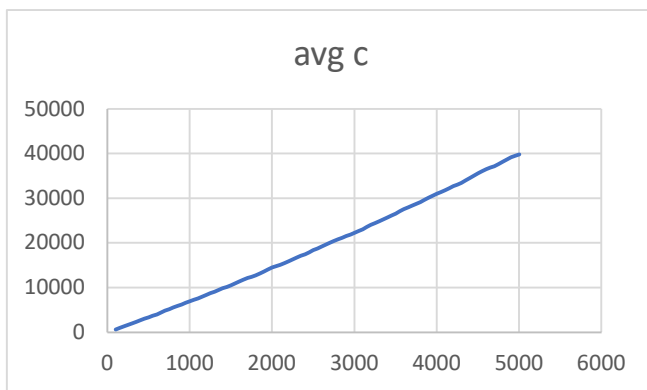
## Zadanie 3

W tym zadaniu znacznie zmniejszyłam maksymalną wielkość  $n$ , ze względu na niedużą moc mojego komputera

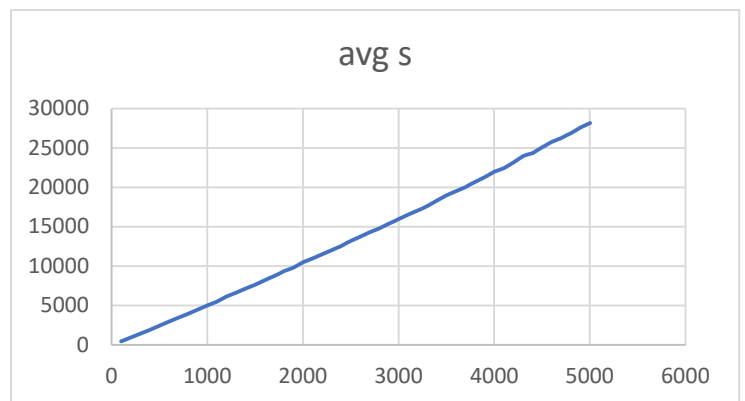
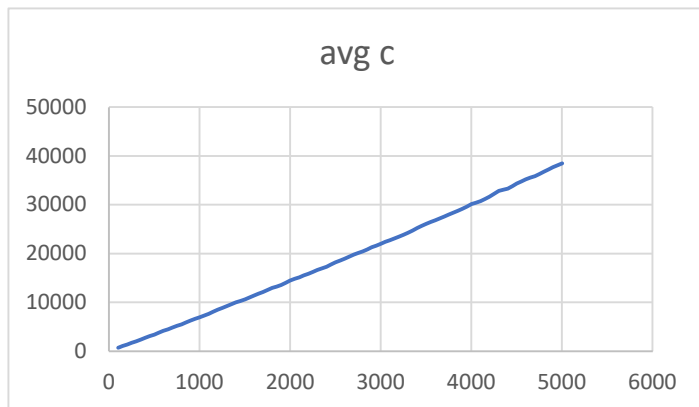
$n/3$  grup:



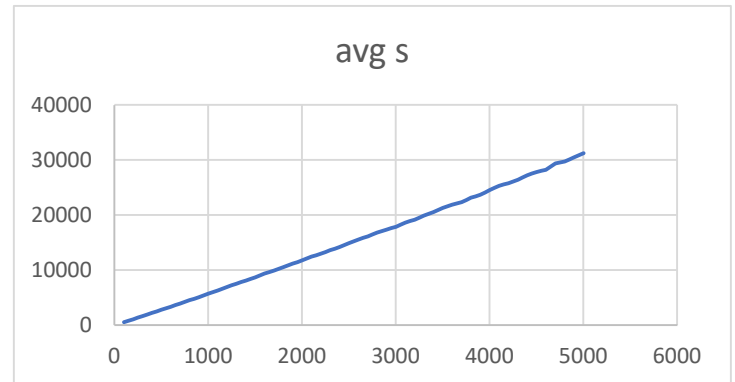
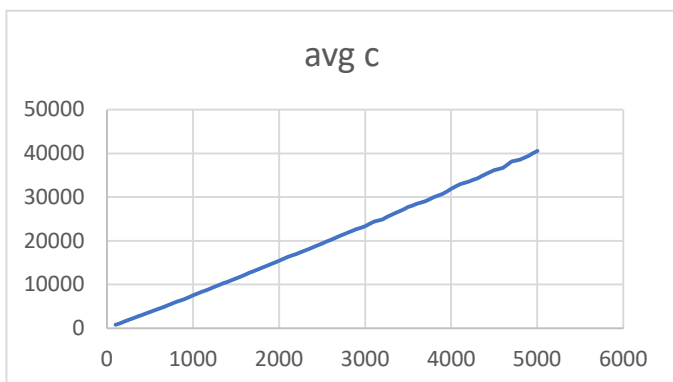
n/5 grup:



n/7 grup:



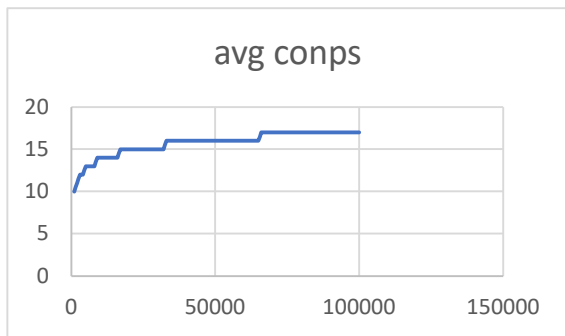
n/9 grup:



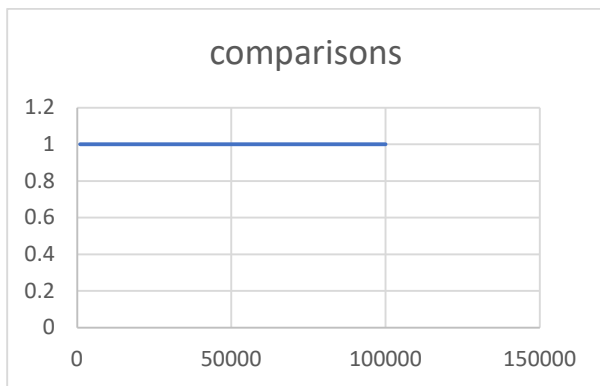
Podziały na n/5 i n/7 grup wypadają bardzo porównywalnie, na n/9 niewiele gorzej, natomiast dzielenie na grupy po trzy elementy przynosi zdecydowanie najgorsze wyniki

## Zadanie 4

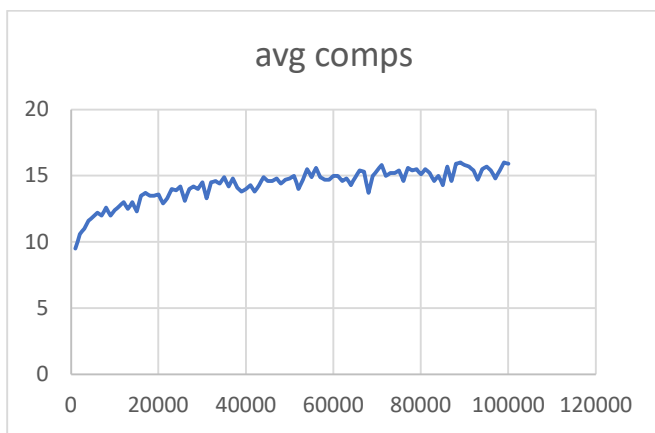
Worst case:



Best case:



Losowy element:



Poza tablicą:

