Remainder stochastic

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portion[], Int_portion[], sum_fitness, fitness_value[], average_fitness, POPSIZE,
POP[], Temp_pop[], next_pop[], temp_portion[], crossover(), random(Temp_pop[],
POPSIZE), string1[], string2[], child[]

begin
i = 0, sumfitness = 0;
Repeat
sumfitness = sumfitness + fitness_value[i];
```

```
i = i + 1;
until(i == POPSIZE);
end;

average_fitness = sum_fitness / POPSIZE;

begin
i = 0;
Repeat
   Portion[i] = fitness_value[i] / average_fitness;
i = i + 1;
until(i == POPSIZE);
end;

begin
i = 0;
```

repeat repeat

```
Temp_pop[N] = POP[i]
  N = N + 1;
 until(N == Int_portion[i]);
 i = i + 1;
until(i == POPSIZE);
select N;
end;
begin
i = 0;
repeat
temp_portion[i] = portion[i] - Int_portion[i];
until(i == POPSIZE);
end;
sort(temp_portion[i]); {sort index (i) from the largest to the smallest}
begin
i = 0; (sorted index i)
repeat
Temp_pop[N] = POP[i];
n = n + 1, i = i + 1;
until(N == POPSIZE);
end;
begin
i = 0;
repeat
 string1[] = random(Temp_pop[], POPSIZE);
 string2[] = random(Temp_pop[], POPSIZE);
 child[i] = crossover(string1[], string2[]);
 next_pop[i] = child[i];
 i = i + 1;
until(i == POPSIZE);
end;
```