i = 1;

long = fileread('sequence\_long.txt');

% short = fileread('sequence\_short.txt');

size = length(long);

used = [];

tpl = {'AAA','CCC','GGG'};

while (i <= (size-2))

tr = strcat(long(i),long(i+1),long(i+2));

if (strcmp(tr,tpl(1)))

used = [used i (i+1) (i+2)];

% tpl(1)

i = i + 2

elseif (strcmp(tr,tpl(2)))

used = [used i (i+1) (i+2)];

% tpl(2)

i = i + 2

elseif (strcmp(tr,tpl(3)))

used = [used i (i+1) (i+2)];

% tpl(3)

i = i + 2

end

% j = 1;

% while (j <= 3)

% if(strcmp(tr,tpl(j)))

% end

% j = j + 1;

% end

i = i + 1

end

disp('finished!');