

Write a program to schedule Pseudo-multiprocessor System
deadline first process

#include <stdio.h>

#include <stdlib.h>

int et[10], T, n, dl[10], p[10], ready[10], flag = 1;

int lca(i, j, k)

int max = cash(a, b);

int min {

if (max > a && max > b) max = a;

else max = b;

min = a;

for (i = 1; i < n; i++)

min = min < arr[i] ? min : arr[i];

}

int lcaarray(i, j, k)

int result = arr[i];

for (i = i + 1; i < j; i++)

result = lca(result, arr[i]);

return result;

}

void main()

int time = lcaarray(0, n);

int op = 0, pi = 0, pre = pi;

while (op <= time) {

for (i = 0; i < n; i++)

if (op >= dl[i])

ready[i] = 1;

}

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flag = 0;
for(i=0; i<n; i++) {
    if(greedy[i] == 1) {
        flag = 1;
        break;
    }
}
if(flag == 0) {
    p1 = -1;
} else {
    p1 = 1;
}
for(i=0; i<n; i++) {
    if(greedy[i] == 1) {
        if(p1 == -1 || d[i] <= p1) {
            p1 = i;
        }
    }
}
if(p1 != p2) {
    if(p1 == -1) {
        cout << "rd Idle" << op;
    } else {
        cout << "rd P->d" << op << p1+1;
    }
    opt++;
}
if(p1 != -1) {
    p[pr] = p[pr]-1;
    if(p[pr] == 0) {
        p[pr] = d[pr];
        ready[pr] = 0;
    }
}
}

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pre = p1;
}
cout << "ln";
}
void edg() {
int time = huffman(d);
int op = 0, p1 = 0, pre = 0;
int flag, i;
while(op <= time) {
    for(i=0; i<n; i++) {
        if(op + d[i] <= ready[i]) {
            flag = 0;
            for(j=0; j<n; j++) {
                if(greedy[j] == 1) {
                    flag = 1;
                    break;
                }
            }
            if(flag == 0) {
                p1 = -1;
            } else {
                p1 = i;
            }
        }
    }
    if(flag == 0) {
        cout << "rd Idle" << op;
    } else {
        cout << "rd P->d" << op << p1+1;
    }
    opt++;
    if(p1 != -1) {
        p[pr] = p[pr]-1;
        if(p[pr] == 0) {
            p[pr] = d[pr];
            ready[pr] = 0;
        }
    }
}
}

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    pre = pri;
}
} printf("n");
```

}

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void edg() {
    int time = leftArray(db, n);
    int op = 0, pri = 0, pre = -1;
    int flag, ?;
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while(op <= time) {

```

        for(i=0; i<n; i++) {
            if(op + del[i] == 0) {
                ready[i] = 1;
            }
        }
        flag = 0;
        for(i=0; i<n; i++) {
            if(ready[i] == 1) {
                flag = 1;
                break;
            }
        }
        if(flag == 0) {
            pri = -1;
        } else {
            pri = -1;
            for(i=0; i<n; i++) {
                if(ready[i] == 1) {
                    if(pri == -1 || p[i] < p[px]) {
                        px = i;
                    }
                }
            }
        }
    }
}
```

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if (pr != pce) {
    if (pr == -1) {
        ready("rdl Idle", op);
    } else {
        ready("rdl P.rl", op, pr + 1);
        opt++;
    }
    if (pr != -1)
        p[pr] = p[pr] - 1;
    if (p[pr] == -1)
        p[pr] = ct[pr];
    ready(pr) > 0;
}
m = p[pr];
ready("ln");
}

int main() {
    int ch, R = 1;
    while (R) {
        ready("Enter number of processes");
        S("rd", &ch);
        if (ch == 1)
            exit(0);
        ready("Enter no. of processes");
        S("rd", &n);
        ready("Enter execution time");
        for (P = 0, i = 0; i < n; i++)
            S("rd", &ct[i]);
    }
}

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for (P = 0; P < n; P++)
    R[P] = ct[P];
for (P = 0; P < n; P++)
    ready[P] = 0;
switch(ch) {
    case 1: ready();
    break;
    case 2: ready();
    break;
    default: ready();
}
}

```

Output:

Enter the no. of process

Enter execution time

Enter deadline

P ₂	P ₃	P ₁	P ₂	P ₁	P ₂
0	8	4	5	7	1

```

for (P=0; P<n; P++)
    R[P] = et[P];
for (P=0; P<n; P++)
    ready[P] = 0;
switch (cls) {
    case 1: new();
    break;
    case 2: edge();
    break;
    default: priority = random(0, n);
}
}
return 0;
}

```

Output:

Enter the no of process: 3

Enter execution times: 3 2 2

Enter deadline 20 ≤ 10

