

1)
maximum/NN
signed/VBN
integer/NN

it is not an *integer* that has been *signed*
it is an *integer* with a *sign*

further, maximum is not a noun, it is an adjective.

so the correct answer is
maximum/JJ
signed/JJ
integer/NN

2)
a/DT
secret/NN
blending/VBG
algorithm/NN

An algorithm for blending.
Not an algorithm that is blending with something.

So the answer is:

a/DT
secret/JJ
blending/NN
algorithm/NN

3)
the/DT
hashing/VBG
process/NN

How about a noun?
is it a process that is hashing or a process for hashing?
it is a process for hashing.

So the correct annotation is

the/DT
hashing/NN
process/NN

4)
Update/VB
on/IN
Cracking/JJ
Theory/NN

is cracking an adjective? No. It isn't a theory that cracks.
So rule out adjective.

Is it a gerund (VBG) or a noun?
It isn't a theory that is cracking something.
It is a theory of/about cracking.
So cracking is a noun.

Update/VB
on/IN
Cracking/NN
Theory/NN

5)
for/IN
now/RB
we/PRP
will/MD
use/VB
that/IN
quoted/VBN
figure/NN

Here quoted is correctly identified as VBN, because
"the figure has been quoted" is its correct interpretation.

6)
a/DT
linear/JJ
brute/JJ
force/NN
attack/NN

is incorrect, *force* is not an entity but a characteristic here:

a/DT
linear/JJ
brute/JJ
force/JJ
attack/NN

it usually is written as: a linear brute-force attack

7)
recursively/RB
hashing/VBG
a/DT
password/NN

here "hashing" is correctly identified as a present participle.
It is 'hashing' *something*, not 'hashing' *of something*.

8)
but/CC
targetted/VBN
attacks/NNS
on/IN
user/NN

data/NNS

It is not "attacks that have been targetted", but "attacks which are of the targetted kind".

targetted is a characteristic of *attack*.

but/CC

targetted/JJ

attacks/NNS

on/IN

user/NN

data/NNS

If it was "the targetted attack", then its correct annotation would be:

the/DT

targetted/VBN

attack/NN

the attack that has been targetted [on something] as in the following example.

9)

the/DT

hashed/VBN

password/NN

"the password that has been hashed" is correct.

10)

n/C NA

hashing/VBG

calculations/NNS

It is not "calculations that hash", but "calculations of hashing", so hashing is a NN.

n/C

hashing/NN

calculations/NNS

11)

that/IN

recursive/JJ

hashing/VBG

protects/VBZ

here "hashing" is a noun.

Alternative form: that recursive hashings protect.

If it was "recursively/RB hashing/VBG protects", then it'd be a Gerund.

that/IN

recursive/JJ

hashing/NN

protects/VBZ

12)
Sorry/UH
,/,
but/CC
this/DT
question/NN
is/VBZ
not/RB
a/DT
duplicate/VB
...

Here *sorry* is used as an interjection, not an adjective as in "I am sorry, but this question...".
It's used as "Sorry! I didn't see that you were on the phone."
Or as "Sorry? What was that? The phone cut out."

13)
@rmeador/USR
thanks/VBZ
,/,
but/CC
my/PRP\$
point/NN
is/VBZ
that/IN

it should be

@rmeador/USR
thanks/UH
,/,
but/CC
my/PRP\$
point/NN
is/VBZ
that/IN

14)
Thanks/VBZ
for/IN
your/PRP\$
comments/NNS

is correctly annotated as Verb.

15)
I/PRP
do/VBP
mean/VB
plain/JJ
english/JJ

tables/NNS
yes/RB
./.

The sentence isn't "I do mean *yes* -- plain English tables."
It is "Yes, I do mean plain English tables."

I/PRP
do/VBP
mean/VB
plain/JJ
english/JJ
tables/NNS
yes/UH
./.

16)
your/PRP\$
salting/VBG
algorithm/NN

an algorithm for salting, so "salting" is a noun.
It isn't an algorithm that is salting for it to be a Gerund.

your/PRP\$
salting/NN
algorithm/NN

17)
a/DT
hashed/VBN
password/NN

This is correct. Because it's alternative interpretation is "a password that has been hashed".

18)
emulated/JJ
prepared/JJ
statements/NNS

which prepared statements? emulated ones.

It is: "prepared statements that have been emulated". So the correct annotation is:

emulated/VBN
prepared/JJ
statements/NNS

19)
the/DT
compiled/JJ
statement/NN

the statement that has been compiled. *compiled* is not a characteristic of statement.

the/DT
compiled/VBN
statement/NN

20)
use/VB
bound/VBN
parameters/NNS

parameters that have been bound.
parameters that are bound.
The later is correct.

use/VB
bound/JJ
parameters/NNS

21)
In/IN
the/DT
absence/NN
of/IN
rounding/VBG
errors/NNS

errors that round??? NO! So no VBG.
Is it an adjective or a noun?

In/IN
the/DT
absence/NN
of/IN
rounding/NN
errors/NNS

"errors about rounding"
So it is a noun more than it could have been an adjective.

22)
the/DT
signing/NN
credentials/NNS

the credentials for signing.

23)
wo/MD
n't/RB
have/VB
unlocked/VBN

keychain/NN

a keychain that has been unlocked.

24)

If/IN

a/DT

DB/NN

supports/VBZ

materialized/VBN

views/NNS

If a DB supports views that have been materialized... this is incorrect.
materialized is a characteristic of the views.
which views must the DB support? materialized views.

If/IN

a/DT

DB/NN

supports/VBZ

materialized/JJ

views/NNS

25)

Great/JJ

./.

This is more an expression of content regarding something. So it is not
an adjective (as in "great job").
It's an interjection.

Great/UH

./.

26)

No/DT

,/,

you/PRP

probably/RB

did/VBD

n't/RB

./.

It isn't a determiner: it isn't "no coffee". It is a modifier of the verb
did.

No/RB

,/,

you/PRP

probably/RB

did/VBD

n't/RB

./.

27)
the/DT
chaining/VBG
expression/NN

the expression that chains, or the expression for chaining.
It is the former, so this is fine.

28)
chained/JJ
functions/NNS
calls/NNS

is it function calls that have been chained, or is it function calls of
the type chained?
It is the former. So,

chained/VBN
functions/NNS
calls/NNS

29)
although/IN
chaining/VBG
function/NN
calls/NNS
does/VBZ
introduce/VB

Here chaining has been correctly annotated as a present participle (VBG).

30)
the/DT
chaining/VBG
expression/NN

Again, this is correct.

31)
see/VB
it/PRP
live/VBP

It's interpreting it as *live* life. This is incorrect.

see/VB
it/PRP
live/JJ

32)
a/DT
function/NN
call/NN
introduces/VBZ

a/DT
sequenced/VBN
before/IN
relationship/NN
of/IN
the/DT
function/NN
calls/VBZ
postfix/NN
expression/NN

how to interpret the following: "a sequenced before relationship".

i) *before* is not a preposition.

is it is a noun? No. "a before relationship" is incorrect.

ii) in "a sequenced relationship", is "sequenced" a noun or an adjective or a past participle (VBN)?

A JJ: which type of "relationship"? sequenced. No

A NN: a relationship about sequencing. No

A VBN: "a relationship" that has been "sequenced"? Yes

iii) *before* then is an adverb.

a/DT
function/NN
call/NN
introduces/VBZ
a/DT
sequenced/VBN
before/RB
relationship/NN
of/IN
the/DT
function/NN
calls/NNS
postfix/NN
expression/NN

33)
the/DT
called/VBN
function/NN

the function that has been called. ok.

34)
We/PRP
also/RB
know/VBP
that/IN
class/C NA
member/NN
access/NN
and/CC

therefore/RB
chaining/VBG
will/MD
evaluate/VB

here "chaining" could alternatively be interpreted as:
chaining of something, not chaining something.
So it is a noun.

We/PRP
also/RB
know/VBP
that/IN
class/C NA
member/NN
access/NN
and/CC
therefore/RB
chaining/NN
will/MD
evaluate/VB

35)
The/DT
postfix/NN
expression/NN
before/IN
the/DT
dot/NN

If it was the postfixed expression, then postfixed would be an JJ.
Here we leave it as a noun.

36)
have/VBP
no/DT
preconceived/JJ
notions/NNS
about/IN

ok.

37)
used/VBD
by/IN
many/JJ
hacking/NN
applications/NNS
./.

is it a gerund, noun or an adjective?
applications that hack.
applications on hacking.
applications of type hacking.

It is a noun. ok.

38)
6/CD
different/JJ
hashing/VBG
algorithms/NNS

"algorithms for hashing", not "algorithms that are hashing".
6/CD
different/JJ
hashing/NN
algorithms/NNS

39)
should/MD
I/PRP
use/VB
which/WDT
hashing/VBG
algorithm/NN

which algorithm for hashing should i use?
It's a noun.

should/MD
I/PRP
use/VB
which/WDT
hashing/NN
algorithm/NN

40)
the/DT
hash/JJ
size/NN

the size of the hash...

the/DT
hash/NN
size/NN

41)
when/WRB
hashing/VBG
file-names/NNS

is correct.

42)
Correct its unrelated, its just a handy implementation specific fact.

Correct/JJ
its/PRP\$
unrelated/JJ
,/,
its/PRP\$
just/RB
a/DT
handy/JJ

Here *Correct* is an interjection.

43)
with/IN
ANY/DT
hashing/VBG
algorithm/NN

has to be "with any algorithm for hashing"

with/IN
ANY/DT
hashing/NN
algorithm/NN

44)
All/DT
hash/JJ
functions/NNS

hash is a noun here, not an adjective.
all functions of hash.

All/DT
hash/NN
functions/NNS

45)
So/RB
what/WP
hash/VBP
function/NN
should/MD
I/PRP
use/VB

So what function to hash should I use?
So what function related to hash should I use?
The later.

So/RB
what/WP
hash/NN
function/NN
should/MD

I/PRP
use/VB

46)
if/IN
you/PRP
want/VBP
a/DT
cryptographically/RB
secure/JJ
hash/JJ
function/NN
./.

"function to hash" versus "function related to hash". The correct annotation is.

if/IN
you/PRP
want/VBP
a/DT
cryptographically/RB
secure/JJ
hash/NN
function/NN

47)
Having/VBG
a/DT
fast/JJ
hash/NN
function/NN
can/MD

Here *hash* has been correctly annotated.

48)
that/WDT
was/VBD
kind/NN
of/IN
what/WP
I/PRP
was/VBD
digging/NN
for/IN
with/IN
this/DT
question/NN

"digging" should be a gerund/present participle verb.
It can be modified by an adverb, like so: I was digging/VBG rampantly/RB
for...

that/WDT
was/VBD
kind/NN
of/IN
what/WP
I/PRP
was/VBD
digging/VBG
for/IN
with/IN
this/DT
question/NN

49)
do/VBP
nt/RB
ever/RB
use/VBP
algorithm/NN
XYZ/C
cause/VB
its/PRP\$
broken/JJ

Here *cause* is short for *because*. The correct annotation is.

do/VBP
nt/RB
ever/RB
use/VBP
algorithm/NN
XYZ/C
cause/IN
its/PRP\$
broken/JJ

50)
always/RB
use/VBP
the/DT
most/RBS
secure/JJ
one/CD
cause/NN
the/DT
performance/NN
difference/NN
is/VBZ
negligible/JJ

again, *cause* is annotated incorrectly. *cause* is short for *because*.

always/RB
use/VBP

the/DT
most/RBS
secure/JJ
one/CD
cause/IN
the/DT
performance/NN
difference/NN
is/VBZ
negligible/JJ

51)
their/PRP\$
bits/NNS
are/VBP
not/RB
in/IN
overlapping/VBG
places/NNS

places that are overlapping. this is correct.

52)
in/IN
the/DT
default/JJ
rounding/VBG
mode/NN

mode that rounds? Yes. VBG is fine.

53)
that/IN
when/WRB
one/CD
of/IN
the/DT
above/JJ
types/NNS
of/IN
rounding/VBG
happens/VBZ

"when one of the above types of rounding [of the data] happens..."
and not "when one of the above types of rounding [the data] happens..."
It's a noun.

that/IN
when/WRB
one/CD
of/IN
the/DT
above/JJ
types/NNS

of/IN
rounding/NN
happens/VBZ

54)
first/RB
a/DT
rounding/VBG
of/IN
the/DT
result/NN
to/TO
the/DT
higher-precision/JJ
type/NN

rounding should be a noun here, since it's not "rounding [the result]",
but "rounding [of the result]".

55)
to/TO
have/VB
correctly/RB
rounded/VBN
results/NNS

results that have been rounded. ok.

56)
replace/VB
it/PRP
with/IN
DBL_EPSILON/C
for/IN
doubles/VBZ

here *doubles* is a plural noun.

replace/VB
it/PRP
with/IN
DBL_EPSILON/C
for/IN
doubles/NNS

57)
a/DT
huge/JJ
amount/NN
of/IN
cargo-culting/JJ
going/VBG
on/RP

"There is a huge amount of cargo-culting [of the data] going on" versus
"There is a huge amount of cargo-culting [the data] going on"

a/DT
huge/JJ
amount/NN
of/IN
cargo-culting/NN
going/VBG
on/RP

58)
Just/RB
doing/VBG
the/DT
arithmetic/NN
in/IN
higher/JJR
precision/NN
then/RB
truncating/JJ

"truncating" should be annotated as VBG as in "... then truncating [the data]."

**how do we know it is the end of the comment?
solved!

59)
its/PRP\$
excepted/VBN
value/NN

value that has been excepted

60)
write/VB
a/DT
throwing/VBG
swap/NN

a swap that is throwing. ok.

61)
Signed/VBN
overflow/NN

an overflow that has been signed. no.
an overflow of the type signed.

Signed/JJ
overflow/NN

62)

the/DT
goal/NN
is/VBZ
to/TO
improve/VB
your/PRP\$
odds/NNS
until/IN
improving/NN
is/VBZ
more/RBR
expensive/JJ
than/IN
a/DT
breach/NN

"until improving [the data] is more..." so it should be VBG

the/DT
goal/NN
is/VBZ
to/TO
improve/VB
your/PRP\$
odds/NNS
until/IN
improving/VBG
is/VBZ
more/RBR
expensive/JJ
than/IN
a/DT
breach/NN

63)
Make/NNP
sure/RB
your/PRP\$
zone/NN
ca/MD
n't/RB
be/VB
xferd/NN

transferred (xferd) should be VBN.

64)
The/DT
point/NN
of/IN
salting/VBG
is/VBZ
to/TO
prevent/VB

salting [the data]. VBG
salting [of the data]. NN

65)
precomputed/JJ
hash-password/JJ
entries/NNS

hash-password entries that have been precomputed.

precomputed/VBN
hash-password/JJ
entries/NNS

66)
Self-professed/JJ
experts/NNS
or/CC
peer/NN
reviewed/VBN
articles/NNS

articles that have been reviewed.

67)
the/DT
encoding/JJ
rules/NNS

the rules about encoding

the/DT
encoding/NN
rules/NNS

68)
your/PRP\$
salting/JJ
algorithm/NN

algorithm for salting

your/PRP\$
salting/NN
algorithm/NN

69)
for/IN
escaping/VBG
purposes/NNS

purposes that are escaping.

purposes of escaping.

70)

is/VBZ

that/IN

emulated/VBN

prepares/VBZ

is/VBZ

that/IN

emulated/VBN

prepares/NNS (reference to prepared statements)

71)

the/DT

salting/NN

scheme/NN

scheme that is salting

scheme for salting

72)

write/VB

any/DT

handling/VBG

code/NN

code that is handling

code for handling

73)

making/VBG

mistakes/NNS

in/IN

handling/VBG

code/NN

"in the handling code"

code for handling

making/VBG

mistakes/NNS

in/IN

handling/NN

code/NN

74)

highly/RB

performing/VBG

code/NN

code that is performing highly

75)

translates/NNS
to/TO
"/``
structured/JJ
exception/NN
handling/VBG

translates to structured exception handlings.no.

76)
precomputed/JJ
dictionaries/NNS

dictionaries that have been precomputed

precomputed/VBN
dictionaries/NNS

77)
the/DT
provisioning/JJ
profile/NN

profile for provisioning

the/DT
provisioning/NN
profile/NN

78)
Use/VB
salted/JJ
hashes/NNS

hashes that have een salted

Use/VB
salted/VBN
hashes/NNS

79)
chaining/VBG
throttling/VBG
down/RP
to/TO
a/DT
single/JJ

chaining/VBG
throttling/NN
down/RP
to/TO
a/DT
single/JJ

80)
throttling/VBG
attempts/NNS

attempts that are throttling
attempts at throttling

throttling/NN
attempts/NNS

81)
You/PRP
must/MD
supply/NN
a/DT
layout_width/C NA
attribute/NN
./.

supply is a verb

You/PRP
must/MD
supply/VB
a/DT
layout_width/C NA
attribute/NN
./.

82)
I/PRP
am/VBP
able/JJ
to/TO
sort/NN
the/DT
First/JJ
date/NN

sort should be verb

I/PRP
am/VBP
able/JJ
to/TO
sort/VB
the/DT
First/JJ
date/NN

83)
home/NN
//CC

back/NN
key/NN
press/VB

press of the home or back key.

home/NN
//CC
back/NN
key/NN
press/NN

which key? the home key.
it's still a noun.
We can say "press home", "press back".

84)
keyboard/NN
press/VBP
still/RB
vibes/VBZ

press of the keyboard still vibes

keyboard/NN
press/NN
still/RB
vibes/VBZ

85)
on/IN
some/DT
click/VB
//CC
touch/VB
events/NNS

click of the mouse
touch of the screen

on/IN
some/DT
click/NN
//CC
touch/NN
events/NNS

86)
Just/RB
close/RB
phoneNumber/C
and/CC
email/C
after/IN

each/DT
iteration/NN

close is a verb

Just/RB
close/VB
phoneNumber/C
and/CC
email/C
after/IN
each/DT
iteration/NN

87)
Anyway/RB
Thanks/VBZ
./.

used as an informal expression of gratitude, appreciation, or
acknowledgment

Anyway/RB
Thanks/UH
./.

88)
A/DT
few/JJ
handle/VBP
links/NNS

links that are handled
links which are handles

A/DT
few/JJ
handle/NN
links/NNS

89)
Please/VB
post/NN
more/JJR
code/NN
./.

post is a verb

Please/VB
post/VB
more/JJR
code/NN
./.

90)
it/PRP
was/VBD
about/IN
string/NN
comparing/VBG

it was about comparing strings... ok.

91)
The/DT
extras/VBZ
i/PRP
have/VBP

extras is NNS

The/DT
extras/NNS
i/PRP
have/VBP

92)
Thanks/VBZ
a/DT
lot/NN

should be

Thanks/NNS
a/DT
lot/NN

93)
Please/RB
help/VBP

should be

Please/RB
help/VB

94)
game/JJ
screen/NN

should've been

game/NN
screen/NN

?

95)
and/CC
only/RB
one/PRP
of/IN
them/PRP

one is cardinal number

and/CC
only/RB
one/CD
of/IN
them/PRP

96)
projects/NNS
my/PRP\$
main/JJ
one/CD
and/CC

projects/NNS
my/PRP\$
main/JJ
one/NN
and/CC